

DVD HOME CINEMA SYSTEM

MX5000D



Read this first!

Congratulations on purchasing this Philips product. We've included everything you need to get started. If you have any problems, Philips Representatives can help you get the most from your new product by explaining:

- Hookups,
- First Time Setup, and
- Feature Operation.

Do not attempt to return this product to the store.

Important!
Return your
Warranty
Registration Card
within 10 days.
See why inside.

For fast help, call us first!
1-800-531-0039

Thank you for making Philips a part of your home!



Let's make things better.



PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

PHILIPS

Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

Sincerely,

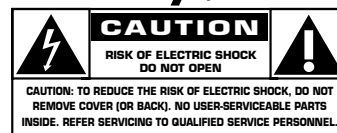



Lawrence J. Blanford
President and Chief Executive Officer


P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!



Know these safety symbols



 This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

 The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Model No. and Serial No., which are located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

**PHILIPS**

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4 Safety Information

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
 2. Keep these instructions.
 3. Heed all warnings.
 4. Follow all instructions.
 5. Do not use this apparatus near water.
 6. Clean only with dry cloth.
 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 11. Only use attachments/accessories specified by the manufacturer.
 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
 15. Battery usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

Copyright Protection

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Federal Communications Commission (FCC)

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.1. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-inclues peuvent se traduire par une exposition dangereuse à l'irradiation.

ATENCIÓN

El uso de mando o ajustes o la ejecución de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

Important Information for Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

Installation

- Place the player on a flat, hard, and stable surface.
- There must be sufficient room in front of the DVD Receiver for the Disc drawer to open.
- For cabinet installations, allow about 10cm (4 inches) of free space all around the DVD Receiver for adequate ventilation.
- Do not expose your DVD Receiver to extreme temperatures or humidity.

Class II equipment symbol

This symbol indicates that the unit has a double insulation system



Welcome!

We hope you enjoy your complete DVD Home Cinema System. This seven-piece, 700-watt system creates dynamic sound quality and realism found only in cinemas. Features of the DVD Home Cinema System include:

- Surround Sound options
- Night Mode: Reduces the range between high and low volumes during Disc playback.
- Parental Controls: Sets a rating level so your children cannot watch a DVD that has a rating higher than the level you set.
- Adjustable speaker settings let you customize your set up..

Package Contents

- Remote Control and two (2) AA batteries
- Audio and Video (Composite) cables
- Five speakers, including speaker wires
- Subwoofer, including connection cable and power cable
- AM loop antenna and FM wire antenna
- Owner's manual, Quick-Use Guide and product registration materials

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Playable Discs

This DVD Home Cinema System will play:

- Digital Video Discs (DVDs)
- Video Compact Discs (VCDs) or Super Video CDs
- All finalized Audio CDs
- MP3 files on Compact Disc Recordable (CD-R) or Compact Disc Rewritable (CD-RW)



Region Codes

DVDs must be labeled for **ALL** regions or for **Region 1** in order to play on the DVD Receiver of this Home Cinema System. You cannot play Discs that are labeled for other regions. The region code for the DVD Receiver is 1 (one). Look for the correct region symbol on your DVDs.

The number inside the globe refers to a region of the world. Region 1 represents the United States of America, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.



Maintenance and Cleaning

- Clean Discs with a cleaning cloth, wiping from the center to the edge in a straight line. Do not wipe the Disc in a circular motion.



- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for analog discs.
- If the DVD Receiver cannot read Discs correctly, use an accessory cleaning CD/DVD to clean the lens. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.
- The lens may cloud over if you suddenly move the DVD Receiver from cold to warm room conditions. If lens clouding occurs, you may not be able to play a Disc. Leave the power on for about one hour with no Disc in the unit until playback is possible.
- Do not expose the receiver, batteries, or discs to humidity, rain, sand, or excessive heat (from devices or direct sunlight). Always keep the disc tray closed to avoid getting dust on the lens.

Helpful Hint

- If you are having trouble playing a certain Disc, remove the Disc and try a different one. Improperly formatted Discs will not play on this DVD Receiver.

6 Remote Control

MUTE Button

Press to turn off the sound. Press again to restore the sound to its previous level.

SOURCE Buttons

Press to select an input source for the Receiver (DVD/CD, TV/AV, TUNER, VCR, SAT, AUX, or CDR)

Numeric Keypad (0-9)

Press to enter a Track/Title number, radio station, or TV channel, depending on the mode of the remote.

DISC MENU Button

Press to access or remove a DVD menu (remote must be in disc mode).

◀◀ Button

In DISC mode, press to go to the previous Chapter or Track. Press and hold to search backward. In TUNER Mode, press to tune to a radio station.

▼ ▲ ◀ ▶ Buttons

Press to move through the GUI, system setup, or DVD menu.

STOP ■ Button

Press to stop playback.

OK Button

Press to confirm menu selections

VIRTUAL Button

Press to select the virtual sound effect (Stadium, Hall, or Theater).

SURROUND Button

Press to select surround sound mode.

TITLE Button

Press to display the Title menu (if it is available on the disc).

SPEAKER Button

Press to select speaker settings.

PROGRAM Button

Press to program tracks in DVD/CD mode and radio stations in TUNER mode.

LANGUAGE Buttons

AUDIO: Press to select different audio languages (or commentary tracks) available on the DVD.

SUBTITLE: Press to select the subtitle language available on the DVD.

REPEAT Button

Press to repeat playback of a specific section on disc.

Standby or Power ⏻ Button

Press to turn the DVD Receiver on or off (Standby).

TV Button

Press to enter a Track/Title number, radio station, or TV channel, depending on the mode of the remote.

SYSTEM MENU Button

Press to enter or exit the System Menu (remote must be in DISC mode).

▶▶ Button

In DISC mode, press to go to the next Chapter or Track. Press and hold to search forward. In TUNER Mode, press to tune to a radio station.

PLAY/PAUSE ▶|| Button

Press to start or pause Disc playback.

VOLUME +/- Buttons

Press to increase or decrease the volume.

TONE Button

Press to select Bass or Treble for adjustment.

TEST TONE Button

Press to check the sound level of the speakers.

GUI Button

Press to display options and information about the disc.

RETURN Button

Press to return to the previous menu level during playback.

NIGHT Button

Press to reduce the range of volume between the loudest and softest sounds during DVD playback. *Details are on page 29.*

PICTURE Buttons

ANGLE: Press to select a different camera angle.

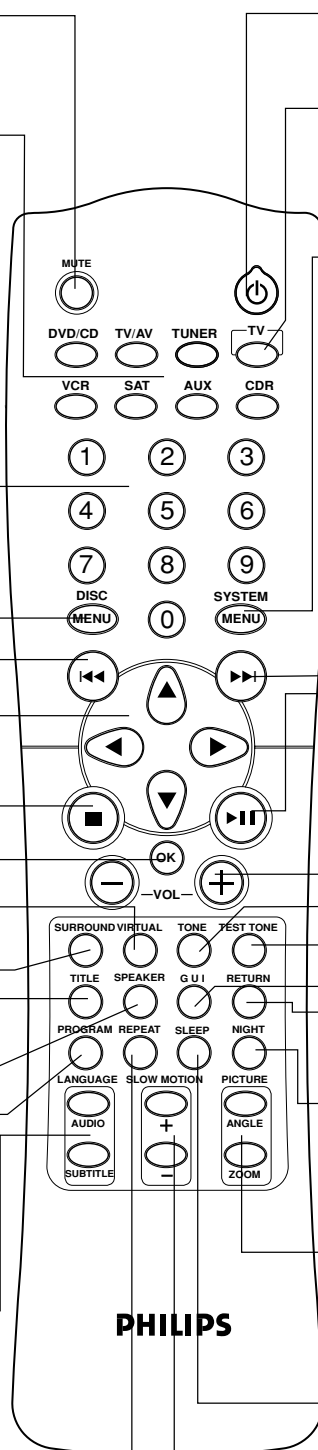
ZOOM: Press to enlarge a still picture on the TV screen.

SLEEP Button

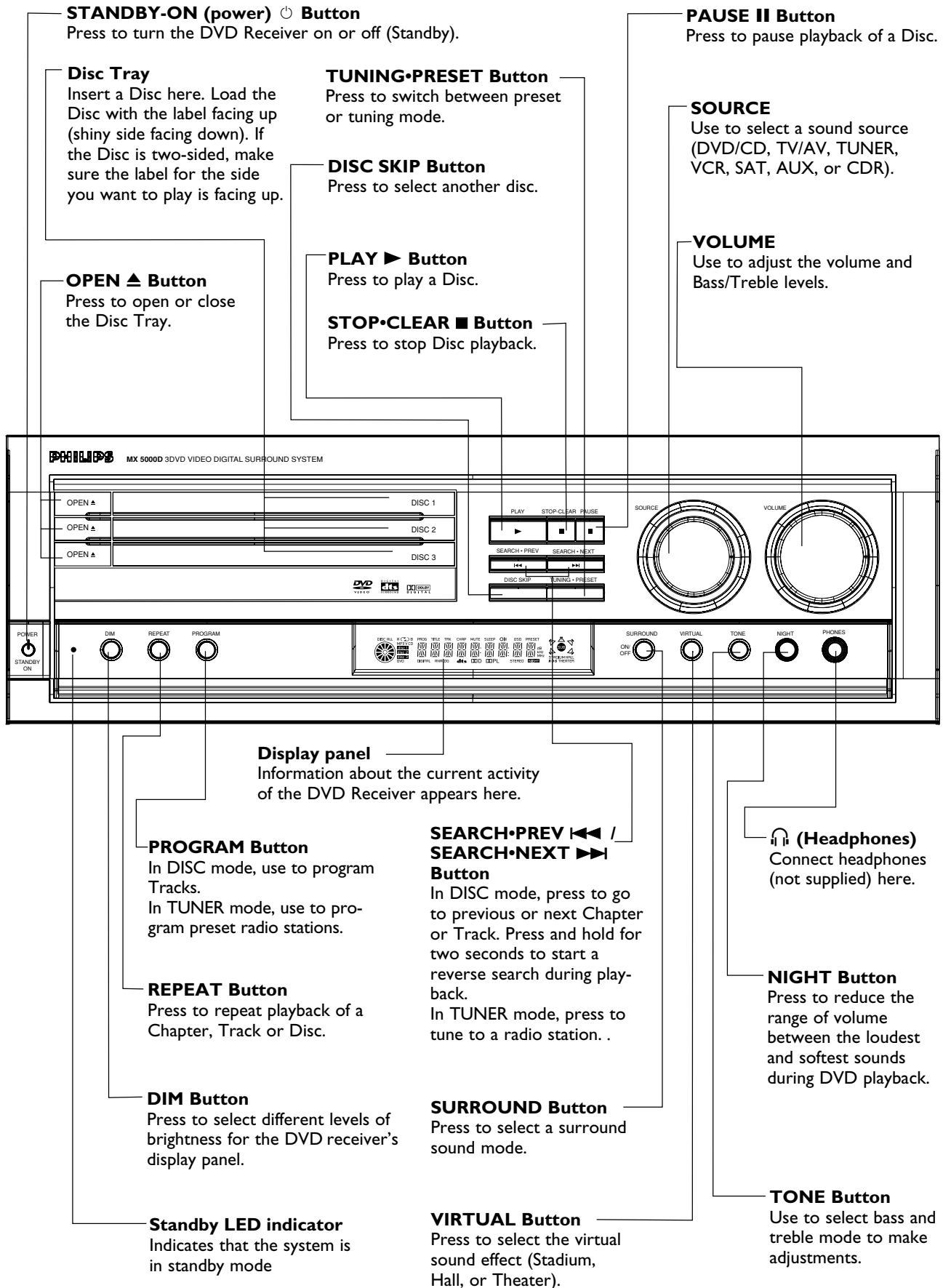
Press to set the Sleep Timer.

SLOW MOTION +/- Buttons

Press to watch a disc at a slower speed.



Front Panel 7



8 Rear Panel

AM/FM ANTENNA

Connect the supplied AM loop antenna to the AM jack. Connect the supplied FM antenna to the FM (75 ohm) jack. *Details are on page 9.*

SPEAKER and SUBWOOFER

Connect the speakers to the jacks here. The Front speakers have red and black wires and jacks. The Center speaker has black and blue wires and jacks. The Surround (rear) speakers have black and gray wires and jacks. The Subwoofer uses black and brown wires and jacks

SAT IN (AUDIO)

Connect these jacks to the red and white Audio Out jacks of a satellite or cable box. This lets you hear satellite or cable sound through the DVD Receiver when it is in SAT mode.

CDR IN and OUT (AUDIO)

Connect a CD recorder to these jacks to make an analog recording or listen to playback on the CD recorder.

S-VIDEO OUT

Use an S-Video cable (not supplied) to connect this jack to the S-Video In jack on your TV. *Details are on page 12.*

MONITOR OUT

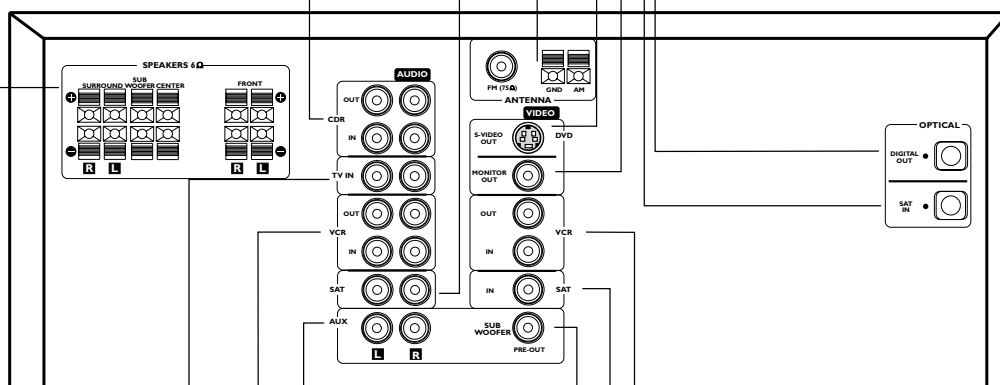
Use a composite Video cable (supplied) to connect this jack to the Video In jack on your TV.

SAT IN

Connect this jack to the Digital Optical Out jack on the satellite receiver or cable box.

DIGITAL OUT-OPTICAL

Connect this jack to the Optical Digital Audio In jack on other audio equipment.



TV IN (AUDIO)

Connect these jacks to the red and white Audio Out jacks of a TV. This lets you hear TV sound through the DVD Receiver when it is in TV/AV mode.

VCR IN and OUT(AUDIO)

Connect these jacks to the red and white Audio Out jacks of a VCR. This lets you hear and VCR sound through the DVD Receiver (in VCR mode) and record from the DVD receiver.

AUX IN (AUDIO)

Connect these jacks to the red and white Audio Out jacks of an external audio device. This lets you hear auxiliary device sound through the DVD Receiver when it is in AUX mode.

VCR IN and OUT (VIDEO)

Use a composite Video cables (not supplied) to connect these jacks to the Video Out and Video In jacks on your VCR. Make sure the IN jacks connect to OUT jacks.

SAT IN (VIDEO)

Use a composite Video cable (not supplied) to connect this jack to the Video Out jack on your Satellite or Cable box.

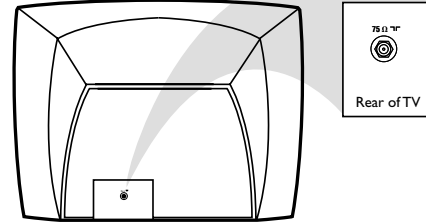
SUBWOOFER PRE OUT

Use an audio cable (not supplied) to connect a larger powered subwoofer.

Where Do You Start?

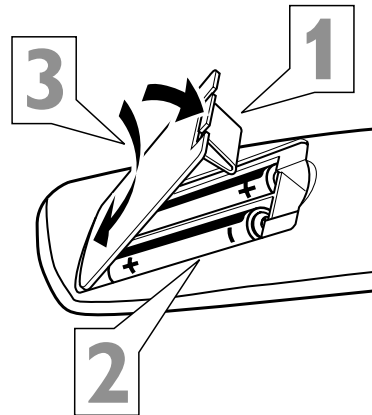
- 1** **Disconnect all equipment** from power. Connect equipment to power only after you have finished hooking up everything. Do not change connections with equipment connected to a power outlet.
- 2** **Put the batteries in the remote control and connect the AM and FM antennas** as detailed below.
- 3** **Connect the speakers and Subwoofer to the DVD Receiver** as detailed in your **Quick-Use Guide** (or on page 13).
- 4** **Connect the DVD Receiver to a Television using one of the options detailed in your separate Quick-Use Guide (or on pages 11-14).**
 - You need only one video connection between the DVD Receiver and the TV. Use Composite Video (good picture quality) or S-Video (better picture). Use the best connection available with your TV.
 - Set the TV to the correct VIDEO IN channel. Such channels may be called AUX IN, AUDIO/VIDEO (A/V) IN, EXT1, S-VIDEO, etc. These channels are often near channel 00 on your TV. Or, your TV remote control may have a button or switch that chooses different Video modes. With some TVs, you use the TV's menu to select a Video mode. See your TV manual for details.

Note: If your TV only has a single Antenna In(put) jack, you will need an accessory RF Modulator to view the DVD playback on your TV. See your electronics retailer or contact Philips for details on RF Modulator availability.



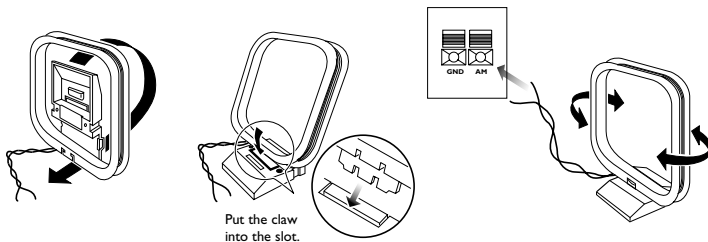
Battery Installation

- 1** **Remove the battery compartment lid** by pressing in the tab, then lifting off the lid.
- 2** **Place the batteries in the battery compartment**, matching the +/- markings on the batteries to the +/- markings inside the remote.
- 3** **Replace the battery compartment lid.**

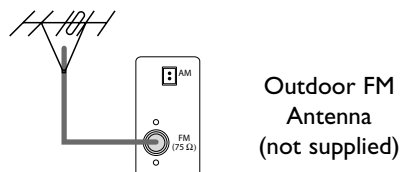


Antenna Connections

- 1** **Connect the supplied AM loop antenna to the AM and GND jacks on the rear of the DVD Receiver.**
 - Reposition the loop antenna to receive the clearest sound for area



- 2** **Connect the supplied FM antenna to the FM jack on the rear of the DVD Receiver.** Extend and adjust the antenna until the clearest station signal is received. For better FM reception, use a 75 ohm coaxial cable (not supplied) to connect the DVD Receiver to an outdoor FM antenna as shown.

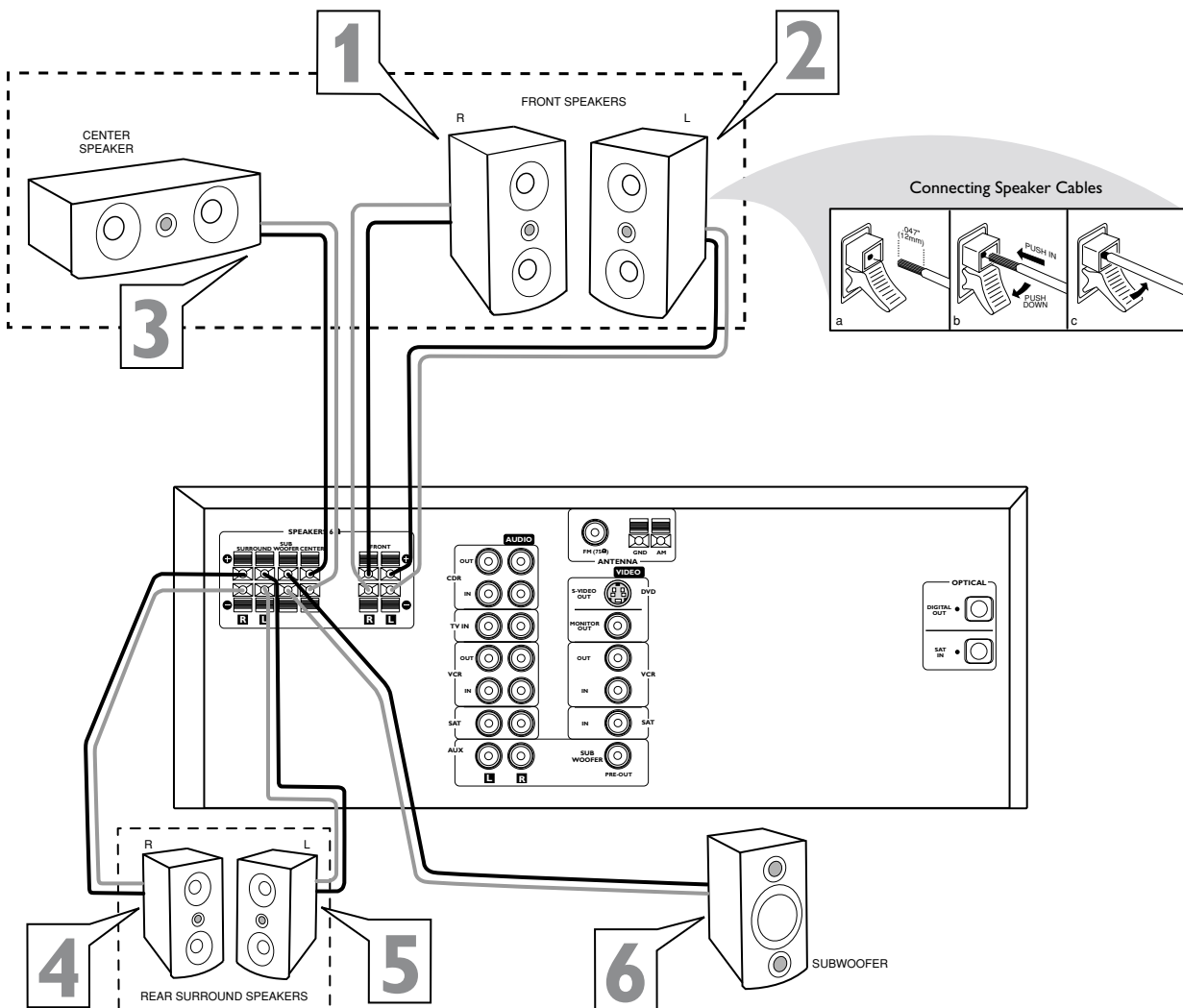


Helpful Hint

- To prevent unwanted noise, keep the antenna as far away as possible from the TV, VCR, or any other radiation source.
- You can also use an outdoor AM antenna (not supplied). Use an insulated wire more than 15 feet long. Strip one end and connect it to the AM jack. Then connect the GND jack to a reliable ground.

10 Hookups - Speakers

Connecting the Speakers

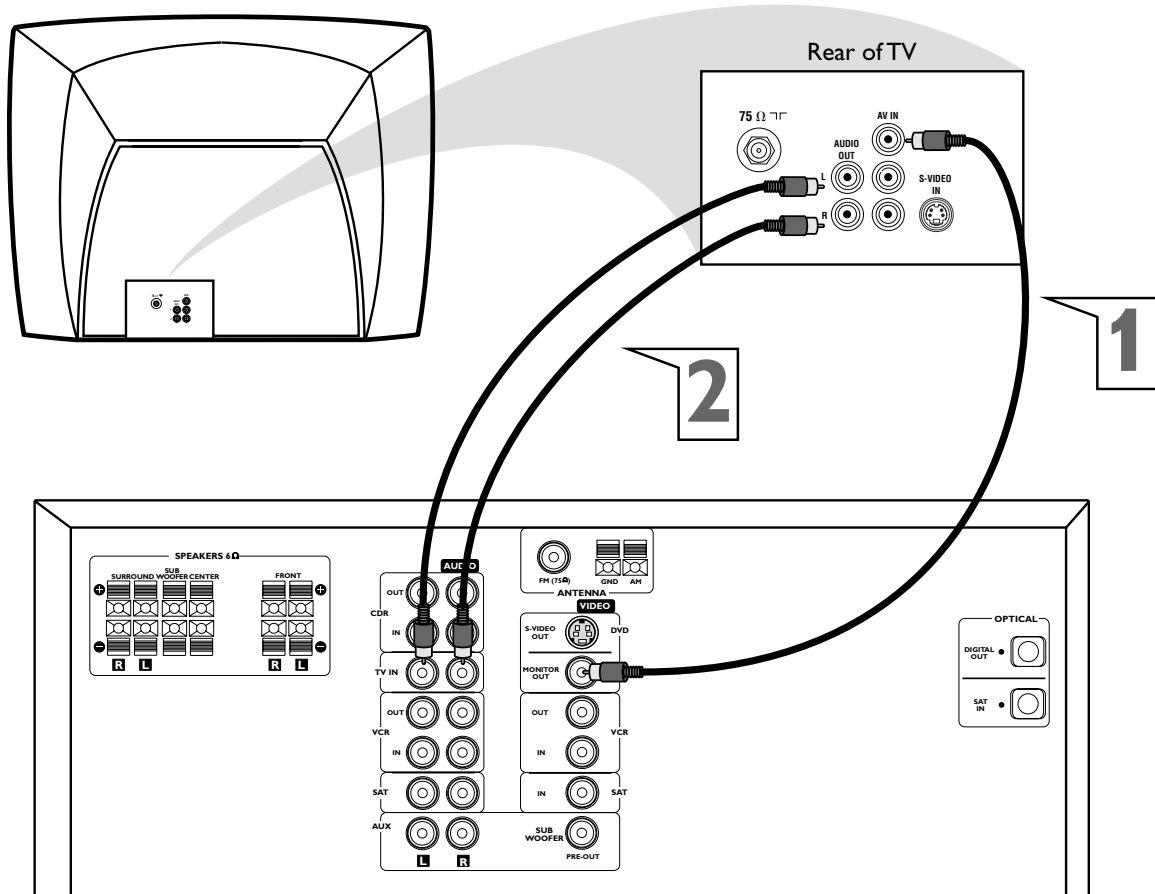



Use the supplied speaker wires.

Match the color coded wiring. Connect the +/- terminals on the Receiver (FR, FL, etc.) to the correct +/- Speaker terminals.

- 1** Connect the supplied **Front Right** speaker to the **Red/Black +/- FRONT R** jacks on the rear of the DVD Receiver.
- 2** Connect the supplied **Front Left** speaker to the **Red/Black +/- FRONT L** jacks on the rear of the DVD Receiver.
- 3** Connect the supplied **Center** speaker to the **Blue/Black +/- CENTER** jacks on the rear of the DVD Receiver.
- 4** Connect the supplied **Surround Right** speaker to the **Gray/Black +/- SURROUND R** jacks on the rear of the DVD Receiver.
- 5** Connect the supplied **Surround Left** speaker to the **Gray/Black +/- SURROUND L** jacks on the rear of the DVD Receiver.
- 6** Connect the supplied **Subwoofer** to the **Brown/Black +/- SUB-WOOFER** jacks on the DVD Receiver.
 - To use a larger Subwoofer (not supplied), connect it to the SUB-WOOFER PRE-OUT jack using a shielded audio cable.

Connecting to a TV with a Composite (yellow) Video In Jack



- 1** Connect the DVD Receiver's yellow **MONITOR OUT** jack to the **VIDEO IN** jack on your TV. Use the supplied composite (yellow) RCA-style video cable.
- 2** To hear TV channels through the DVD Home Cinema System, connect the supplied red and white audio cables to the DVD Receiver's red/white, right/left (**AUDIO**) **TV IN** jacks and to the TV'S right/left **AUDIO OUT** jacks. Match the cable colors to the jack colors.
- 3** Connect the power cords of the DVD Receiver and TV to a power outlet.
- 4** Turn on the TV and set it to the correct Video In channel. Go to the lowest TV channel and change channels down until you find the Video In channel. (It is not channel 3 or 4 as it might be when using a VCR.) See your TV owner's manual for details.
- 5** Press **STANDBY-ON**  on the front of the DVD Receiver to turn on the DVD Receiver. The red Standby light will disappear.

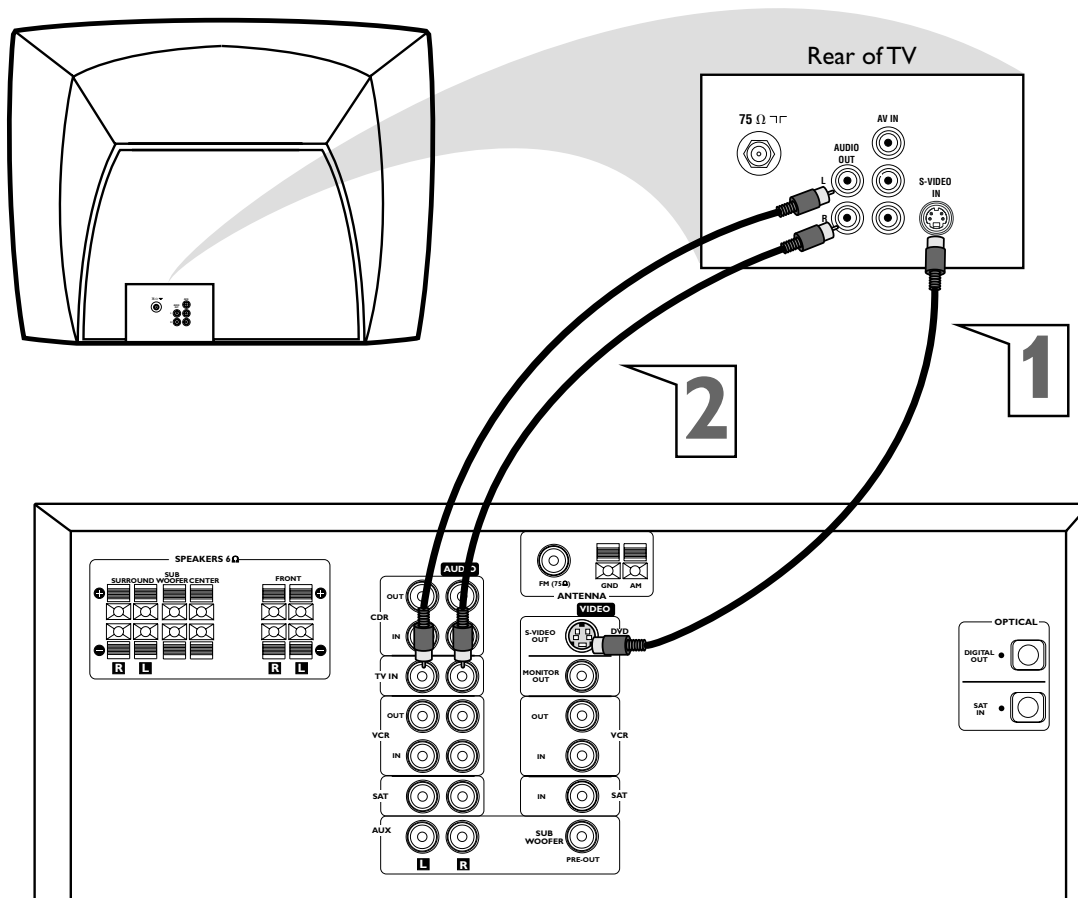
Helpful Hints


- If your TV only has a single Antenna In(put) jack, you will need an accessory RF Modulator to view the DVD Playback on your TV. The RF Modulator converts the Video signal output from the Receiver so that it can be played through the TV's Antenna connector.
- See your electronics retailer or contact Philips for details on RF Modulator availability.



12 Hookups - TV (cont'd)

Connecting to a TV with an S-Video In jack

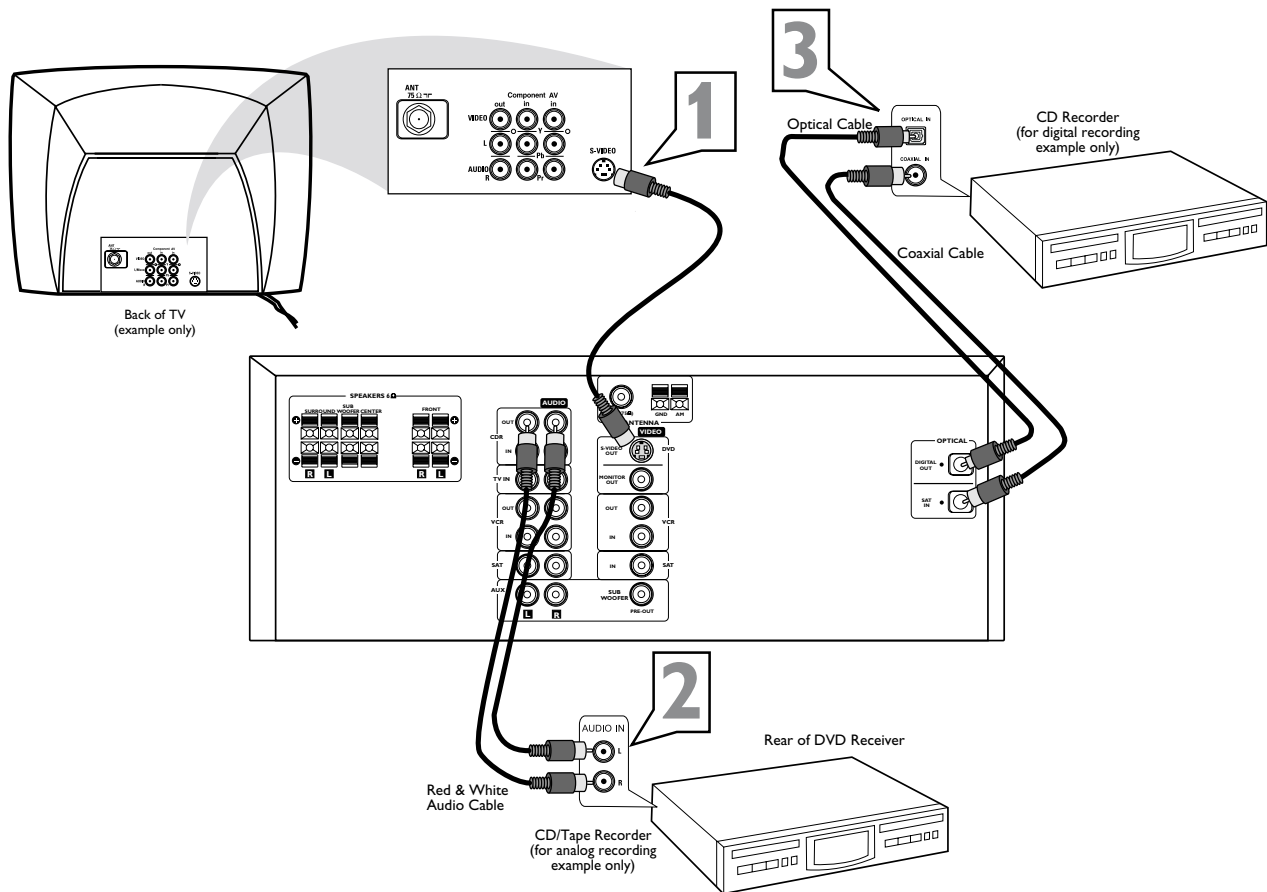


- 1** Connect the DVD Receiver's **S-VIDEO OUT** jack to the **S-VIDEO IN** jack on your TV. You will need an S-Video cable (not supplied).
- 2** To hear TV channels through the DVD Home Cinema System, connect the supplied red and white audio cables to the DVD Receiver's red/white, right/left **AUDIO IN** jacks and to the TV'S right/left **AUDIO OUT** jacks. Match the cable colors to the jack colors.
- 3** Connect the power cords of the DVD Receiver and TV to a power outlet.
- 4** Turn on the TV and set it to the correct **S-Video In** channel. Go to the lowest TV channel and change channels down until you find the S-Video In channel. (It is not channel 3 or 4 as it might be when using a VCR.) See your TV owner's manual for details.
- 5** Press **STANDBY-ON**  on the front of the DVD Receiver to turn on the DVD Receiver. The red Standby light will disappear.

Helpful Hints

- The S-Video connection will only play DVDs. If you plan to use a VCR or Cable/Satellite box with your receiver, you must connect your TV to the **MONITOR OUT** jack.

Connecting to a TV and Optional Audio Equipment



You must connect a TV to the DVD Receiver in order to view DVD playback. However, additional Home Cinema System connections are possible for recording or other sound features.

Always refer to owner's manual of the other equipment for complete connection and use details.

1 Connect the DVD Receiver to a TV (as shown on pages 11-14 or in your separate Quick-Use Guide). Make only one video connection, whichever fits your TV.

2 Connect the DVD Receiver's AUDIO CDR OUT jacks to the AUDIO IN jacks on an external audio accessory (CD Recorder, etc.) This will allow you to make analog Stereo (two channel, right and left) recordings.

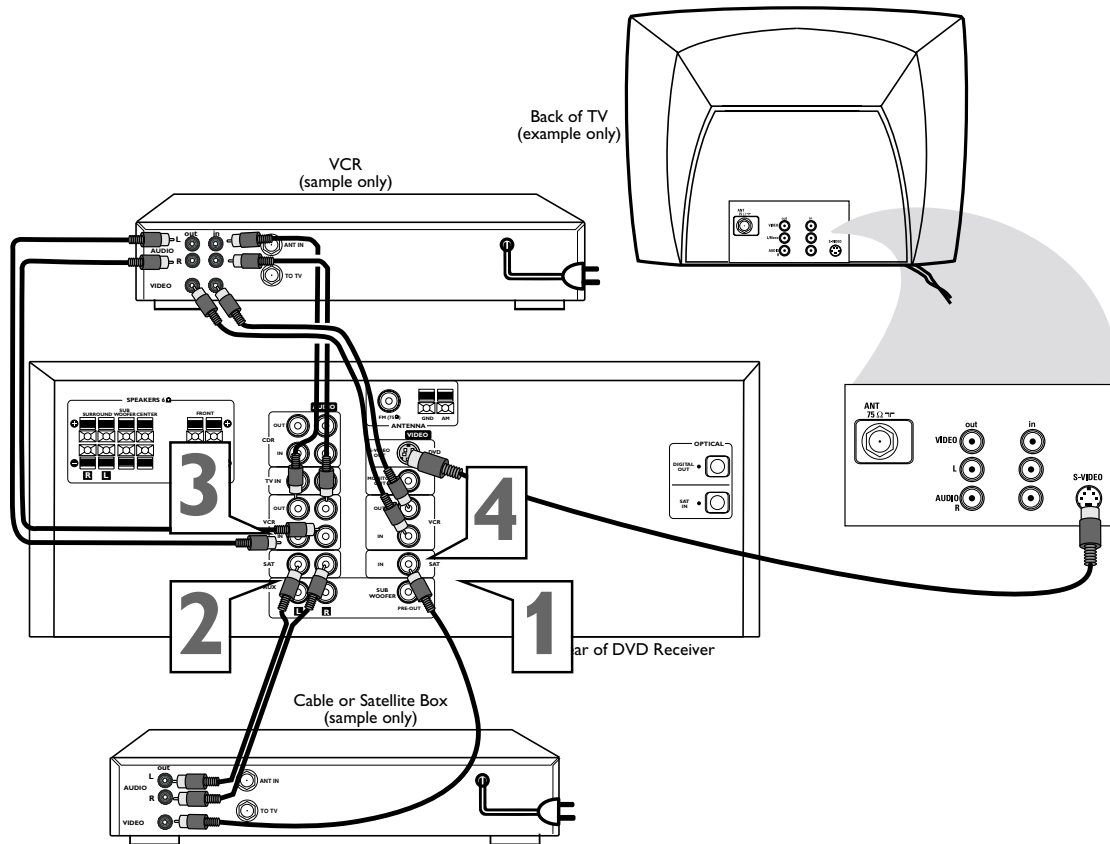
3 Or, connect either of the DVD Receiver's DIGITAL OUT jacks - OPTICAL or COAXIAL - to a Stereo that is DTS (Digital Theater System) compatible, has a Dolby™ Digital decoder, or has CD recording capability.

Helpful Hints

- If you used the DIGITAL OUT - OPTICAL or COAXIAL jacks, set DIGITAL OUTPUT to ALL on the DVD Receiver. Details are on page 28.
- Some DVDs are copy-protected. You cannot record or dub protected Discs using a VCR or a digital recording device.
- Digital recording is possible only on a CD or Video CD.
- MP3 audio is a digital recording option.

14 Hookups - Optional

Connecting to a VCR or Cable/Satellite Box



Connecting a Cable/Satellite Box

You must connect the VCR or cable/satellite box to the TV to view VCR playback or cable/satellite channels. However, you can connect the VCR or cable/satellite box to the receiver in order to hear surround sound playback.

Always refer to owner's manual of the other equipment for complete connection and use details.

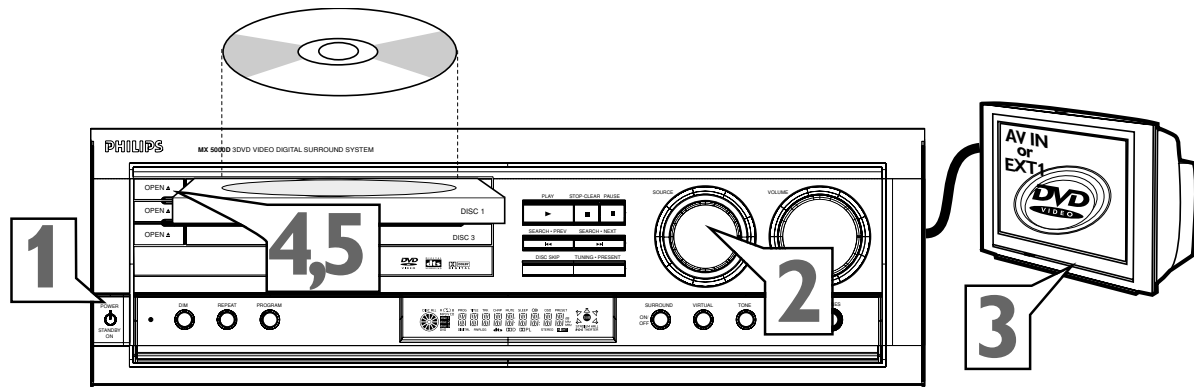
- 1** Connect the DVD Receiver's **VIDEO SAT IN** jack to the VIDEO OUT jack on the cable/satellite box.
- 2** Connect **AUDIO-SAT (L/R)** jacks to the AUDIO OUT jacks on the cable/satellite box.
 - For a digital connection, connect the OPTICAL-SAT IN jack to the DIGITAL OPTICAL OUT jack on the cable/satellite box.

Connecting a VCR

- 3** Connect the DVD Receiver's **AUDIO VCR OUT L/R** and **VCR IN (L/R)** jacks to the AUDIO IN (L/R) and AUDIO OUT L/R jacks on the VCR.
- 4** Connect the DVD Receiver's **VIDEO VCR OUT** and **VCR IN** jacks to the VIDEO IN and VIDEO OUT jacks on the VCR.

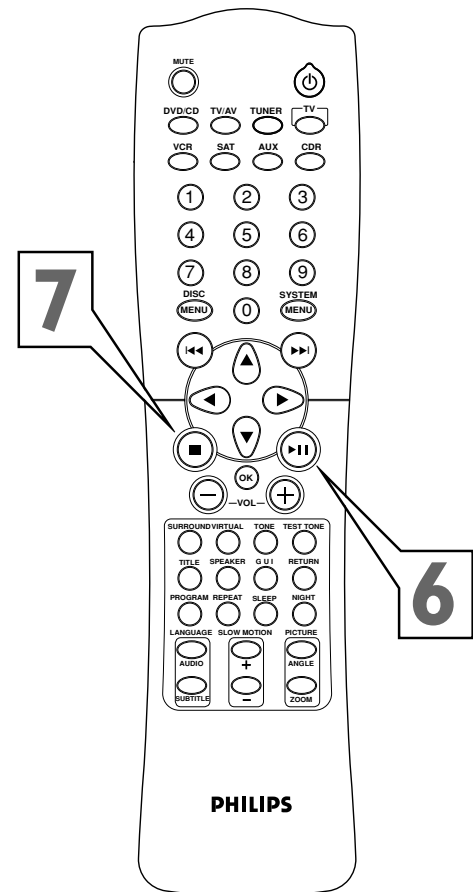
Helpful Hints

- The receiver only uses all of the surround sound speakers when the incoming audio (from a VCR, cable, or satellite) is in surround sound format (Dolby Digital, DTS, Dolby Pro Logic). If the audio signal is in stereo format, some of the speakers will not be active.



There are many playback features and options available on Discs. After learning the basic operations of the DVD Receiver and the remote control, refer to the later sections of this manual to learn playback features.

- 1** Press **STANDBY-ON** (or **DISC**) to turn on the DVD Receiver. The red Standby light will disappear from the front of the DVD Receiver.
- 2** Turn the **SOURCE** dial on the DVD Receiver (or press DVD/CD, TV/AV, TUNER, TV, VCR, SAT, AUX or CDR on the remote control) to select a sound source.
 - The DVD Receiver's display panel will show the selected source (DVD/CD, TV/AV, TUNER, etc.).
- 3** Turn on your TV and set it to the correct Video In channel. You should see the DVD Receiver's background screen on the TV.
- 4** Press **OPEN/CLOSE** on the front of the DVD Receiver to open the Disc tray. Load your Disc in the tray, with the label facing up as you place the Disc in the tray.
 - If the Disc is two-sided, make sure the label of the side you want to play is facing up.
- 5** Press **OPEN/CLOSE** again to close the tray. Playback may begin automatically.
- 6** If playback does not start automatically, press **PLAY/PAUSE** .
 - If DVD playback does not start automatically, a DVD Disc Menu may appear.
 - If the Titles or Chapters are numbered, press a Number button to select an item. Or, press to select an item, then press OK.
- 7** To stop playback at any time, press **STOP** .



NTSC/PAL Automatic Conversion

The MX 5000 is equipped with an NTSC/PAL automatic conversion feature that converts the video output for the disc to match your TV system. No additional configuration is needed.

Helpful Hints

- If the Disc is Locked by Parental Control, you must enter the four-digit code to unlock the Disc. Details are on pages 25-26.
- DVDs have a region code. Your DVD Receiver will not play Discs that have a region code other than 1 (one). Details are on page 5.

16 Playback Features

Pausing playback

- 1 Press **▶||** during playback to freeze the picture and mute the sound.
- 2 Press **▶||** to resume normal playback.

Selecting another Track/Chapter

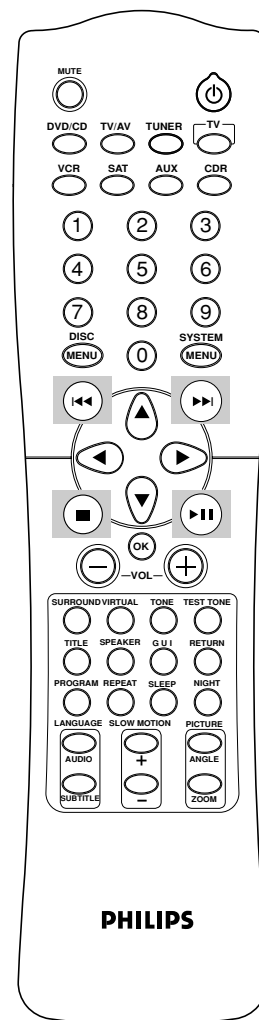
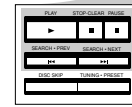
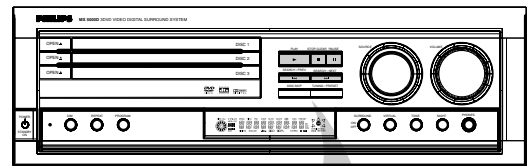
- 1 Press **◀◀** once during playback to go to the beginning of the current track/chapter. Press **◀◀** multiple times to go to previous tracks/chapters.
- 2 Press **▶▶** during playback to go to the next track/chapter. Press **▶▶** multiple times to go to subsequent tracks/chapters.
- 3 Press the number buttons (0-9) to go directly to a desired track or chapter.

Searching

- 1 Press and hold **◀◀** or **▶▶** for two seconds to fast reverse or fast forward the disc at 2x speed. Press and hold the button again for 4x speed, 8x speed and 16x speed. Each time you press and hold the button the speed increases by a step.
- 2 Press **▶||** to resume normal playback.

Stopping and Resuming

- 1 Press **■** to stop playback. RESUME appears on the display and stores the last frame viewed in memory. When you press **▶||** playback will begin at that point.
- 2 Press **■** again to clear the resume memory.




Graphic User Interface (GUI)


The GUI is displayed during playback and provides disc information and options





- 1 Press **GUI** during playback to access the menu.
- 2 Press **◀** or **▶** to select the desired feature.
- 3 Press the appropriate button or numbers to make your selection.
 - The disc must be playing for the GUI to be used.


 Title/Track:
Use the **number buttons** to select the title, then press OK

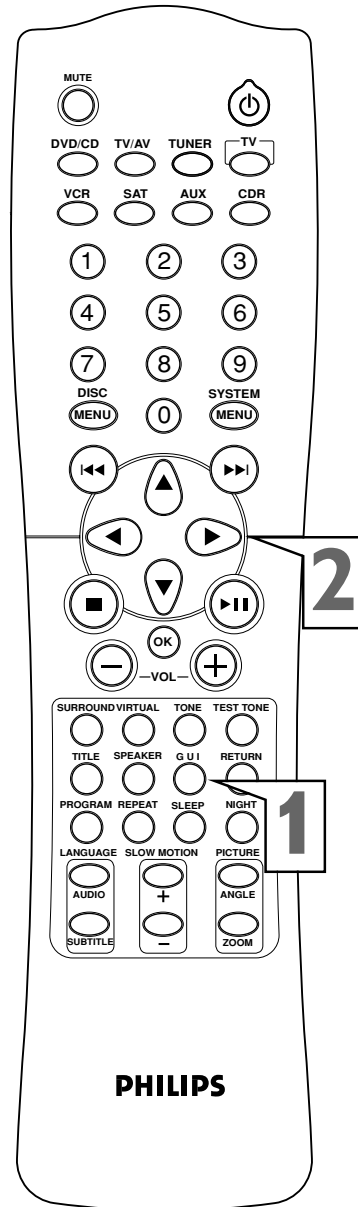
 Chapter:
Use the **number buttons** to select the chapter, then press OK

 Time Search:
Use the **number buttons** to select the time, then press OK

 Language:
Press **AUDIO** to switch the sound track language, then press OK.

 Subtitle:
Press **SUBTITLE** to switch the sound track language, then press OK.



 Angle:
Press **ANGLE** to select the desired angle, then press OK.

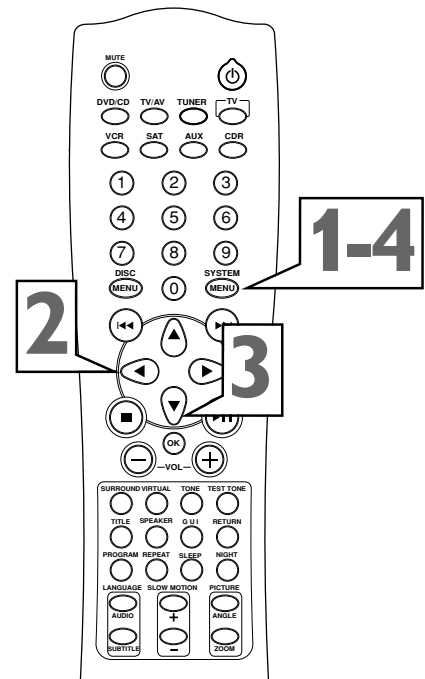


18 Title/Chapter Selection, Subtitles

Title/Chapter Selection

DVDs may contain multiple Titles or Chapters.

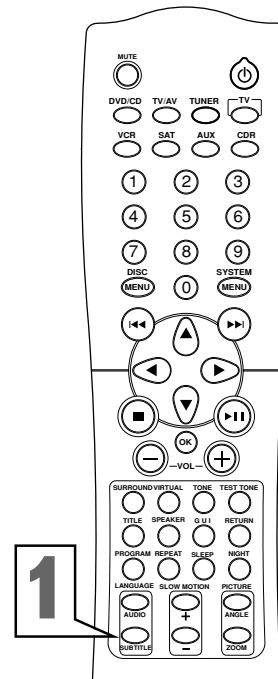
- 1** Press **SYSTEM MENU**.
- 2** Press **◀** or **▶** to select  (Title/Track) or  (Chapter).
- 3** Use the **Number buttons (0-9)** to select a **Title or Chapter number**, then press **OK**. The Title or Chapter you selected will start playing automatically.
- 4** Press **SYSTEM MENU** to remove the Menu Bar.



Subtitles

Some DVDs provide subtitles in multiple languages. If so, you can select a language in the Menu Bar. Check the DVD or its case to make sure subtitles are available in the language you want.

- 1** Press **SUBTITLE** during playback to select the subtitle language. To turn off the subtitles press **SUBTITLE** until "OFF" is displayed.



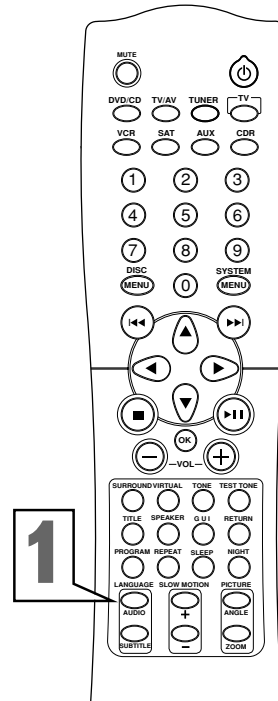
Helpful Hints

- Some DVDs may not allow you to choose a Title or Chapter in the DVD Receiver's Menu Bar. Choose the Chapter or Title you want in the DVD's Disc Menu instead.
- Time Search of a Video CD is not possible if Playback Control is active.

Audio Language

Some DVDs are recorded in multiple languages; some may have extra audio options such as a director's commentary or a music soundtrack. Check the DVD or its case to determine whether different audio options or languages are available.

- 1 Press **AUDIO** during playback to select the audio language.

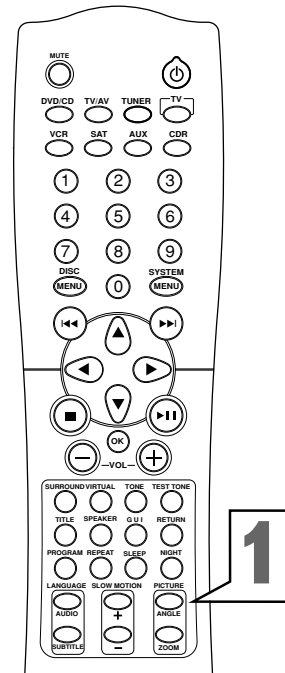


Angle

Some DVDs contain scenes that were recorded at different angles or perspectives. Use the Angle feature in the Menu Bar to view DVD playback from a different angle.

Multiple angles may not be available on the DVD. Check the DVD Disc Menu or the DVD case for details and availability of multiple angles.

- 1 Press **ANGLE** during playback to select the desired angle. If the angle does not change, the DVD probably does not include different angles.



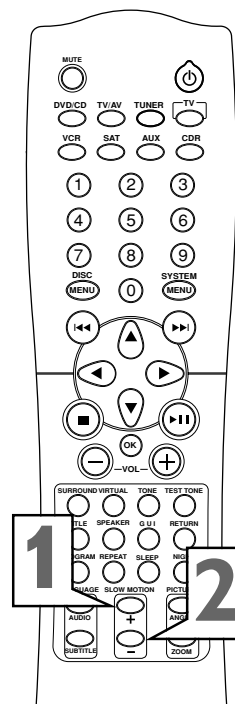
Helpful Hints

- If a desired Audio or Subtitle language cannot be selected, the language is not available on the current Disc.
- Some DVDs only allow you to change the Audio or Subtitle language in the DVD Disc menu. Refer to the DVD's Disc menu for details on changing the Audio or Subtitle language.

20 Slow Motion, Zoom

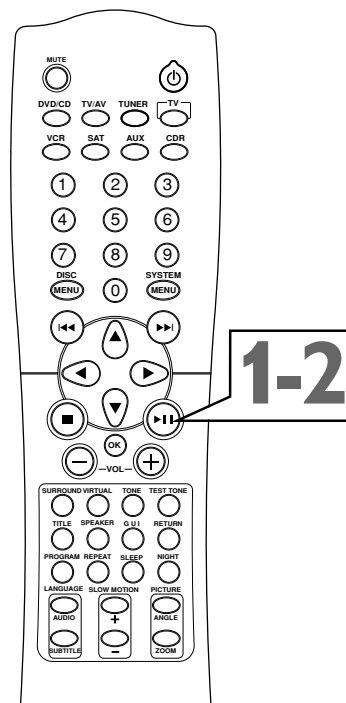
Slow Motion

- 1 Press **SLOW MOTION +** to select the speed for slow playback. Press the button repeatedly to select 1/2x, 1/4x, or 1/8x.
- 2 Press **SLOW MOTION -** to reverse the playback direction. Press the button repeatedly to select 1/2x, 1/4x, or 1/8x.



Step Playback

- 1 Press **PAUSE II** to interrupt playback.
- 2 Press **PAUSE II** on the receiver to advance to the frame. Each time you press the button, the picture advances one frame.

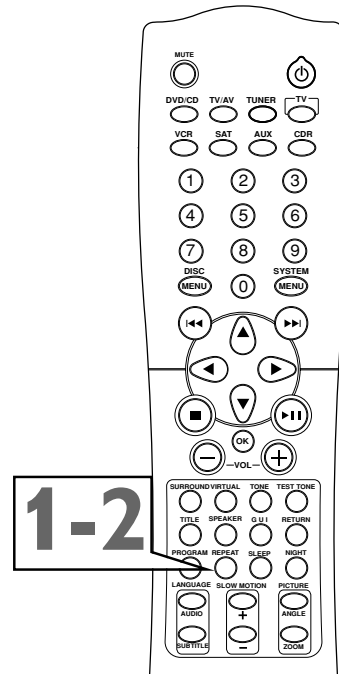


Helpful Hint

- Sound will be muted during Slow motion playback and Forward and Reverse Searching.

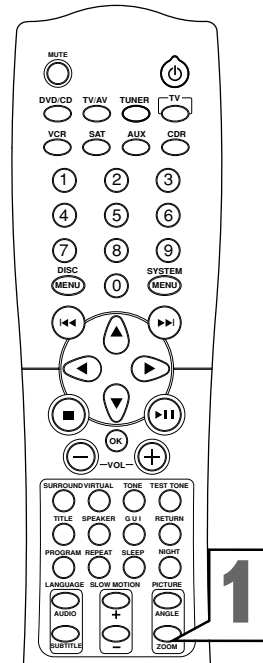
Repeat

- 1** During DVD playback, press **REPEAT** on the remote to play a Title or Chapter repeatedly. Press REPEAT to select:
 - CHAPTER REPEAT to repeat playback of the current Chapter. "CHAP" flashes on the display.
 - TITLE REPEAT to repeat the current "TITLE" flashes on the display.
 - REPEAT OFF to cancel repeat playback and resume normal play back.
- 2** During Audio CD press **REPEAT** to play a Track or Disc repeatedly. Press REPEAT to select:
 - to repeat the current track.
 - ALL to repeat the entire disc.
 - ALL DISC to repeat all three discs.



Zoom

- 1** Press **ZOOM** during playback to select the zoom size. Select 4x, 16x, or OFF.



Helpful Hints

- Repeat play is not available with all Discs.
- To use ALL DISC you must have a disc in each tray. Otherwise playback will stop when it reaches an empty tray.
- When is activated you cannot use or to skip to another track. You must exit the repeat mode or use the number buttons to enter the desired track number.

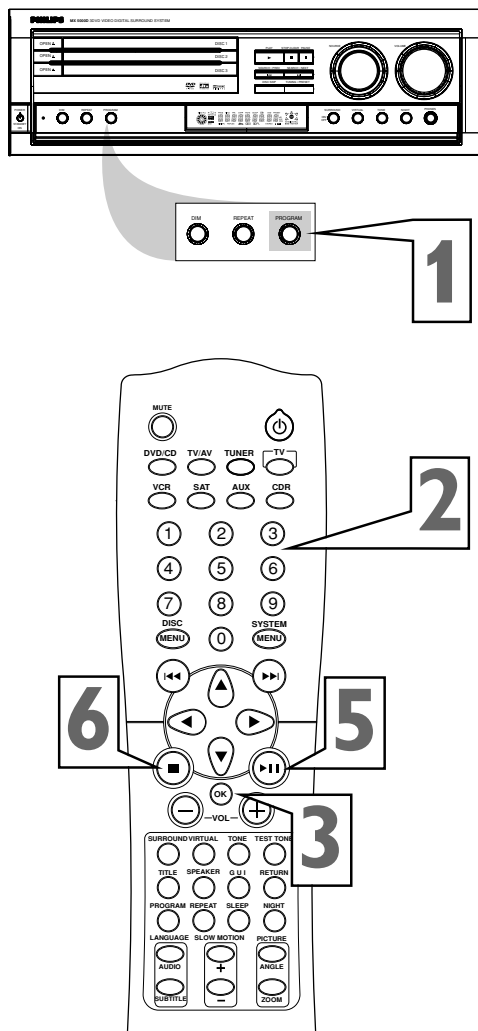
22 Favorite Track Programming, Night Mode

Favorite Track Selection

You can play Audio CD Tracks in an order you specify, with up to 32 tracks in a program.

- 1** While playback is stopped, press **PROGRAM** on the DVD Receiver. "PROG" flashes on the DVD Receiver's display panel.
- 2** Press the **Number buttons** (0-9) to enter the track number you want to play. If you try to program more than 32 tracks, "P-FULL" appears in the display panel.
- 3** Press **OK** to store the track.
- 4** Repeat steps two and three for every track you want to program.
- 5** Press **PLAY/PAUSE** ►|| to play the Program.
- 6** Press **STOP** ■ once to stop playback. Press **STOP** ■ again to cancel the Program.

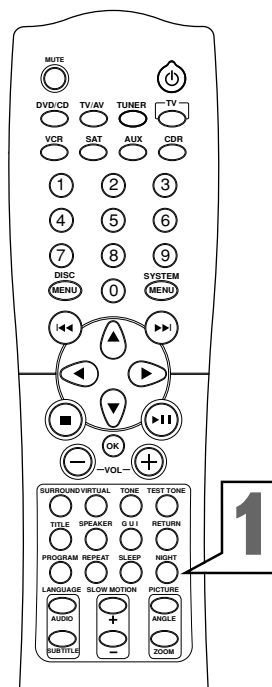
● You can review the program by pressing ▲ and ▼ while playback is stopped. Press ■ to exit the review mode.



Night Mode

Set Night Mode to On to level the volume during Disc playback. This reduces the highs and lows of the volume.

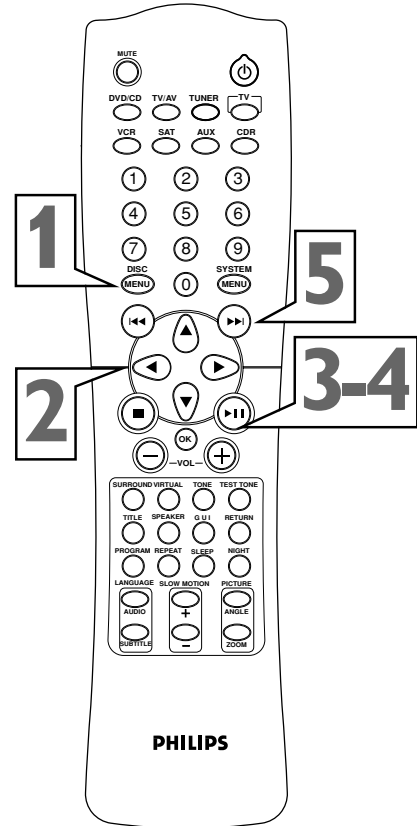
- 1** Press **NIGHT** to turn Night mode on or off.



MP3 Features

MP3 is a compression method that makes digital music files up to 10 times smaller without losing significant sound quality. MP3 is a common audio format on the Internet, letting you transfer tracks to your computer and onto a CD Recordable or CD Rewritable.

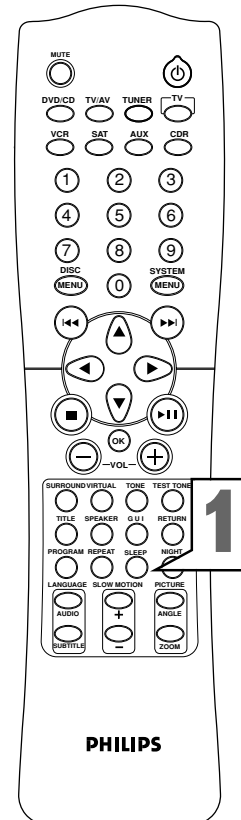
- 1** After you insert a Disc containing MP3 files, press **DISC MENU**. The Album menu or list will appear on the TV screen. It may take the DVD Receiver up to 30 seconds to recognize the Disc due to the amount of songs on the Disc.
- 2** Press **▼ ▲ ◀ ▶** to select an Album or Track for playback. You also can use the Number buttons to select a Track directly.
- 3** Press **▶||** to confirm your selection and begin playback.
- 4** Or, if an MP3 menu or file list does not appear, you can play the currently selected Track or Album by pressing **▶||**.
- 5** Press **◀◀** or **▶▶** to select the previous or next Track during playback. The current Track number will appear on the DVD Receiver's display panel.



Sleep Timer

The Sleep Timer turns the DVD Home Cinema System to Standby mode (off) at a preselected time.

- 1** Press **SLEEP** repeatedly to choose how long you want the DVD Receiver to remain on. You may choose (in minutes): 10, 20, 30, 40, 50, 60, 70, 80, 90, or 120. "SLEEP" appears on the display.
- **To check the time** remaining for the Sleep Timer (after you have set it), press SLEEP once.
 - **To change the Sleep Timer**, press SLEEP again while the Sleep Timer minutes appear. The next Sleep Timer option will appear on the display panel.
 - **To cancel the Sleep Timer**, press SLEEP repeatedly until "SLEEP" disappears. Or, press **STANDBY-ON** to turn off the DVD Receiver.



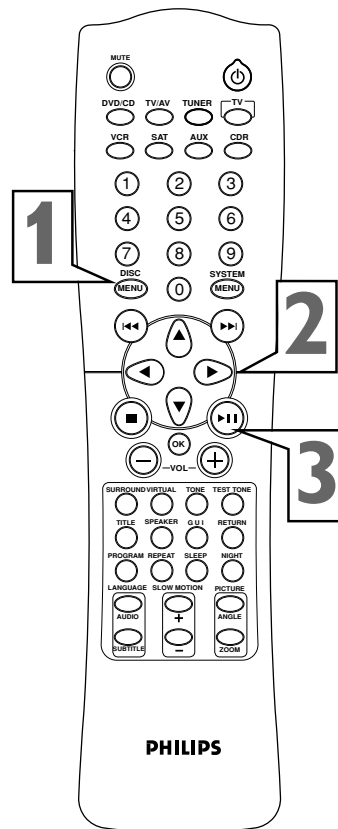
24 Disc Menu, Title Menu

DVD Disc Menu

DVD Disc Menus vary among DVDs. The DVD Disc Menus allow you to choose different playback features from those available on the Disc.

- 1** Press **DISC MENU** to display the Disc Menu.
- 2** Press **◀▶▲▼** to select the desired feature.
- 3** Press **▶II** or **OK** to begin playback or use the feature.

- Not all DVDs contain disc menus and operation will vary between DVDs.

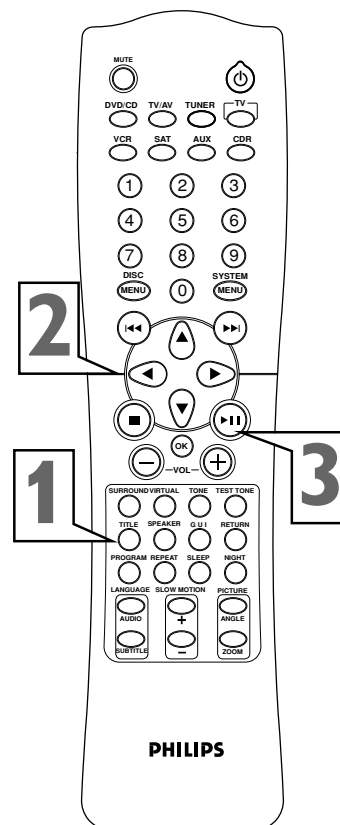


DVD Title Menu

Some DVDs contain more than one title. If the disc has a Title Menu, you can use it to select which title to view.

- 1** Press **TITLE** to display the Title Menu.
- 2** Press **◀▶▲▼** or the number buttons to select the desired title.
- 3** Press **▶II** or **OK** to begin playback.

- Not all DVDs contain title menus and operation will vary between DVDs.



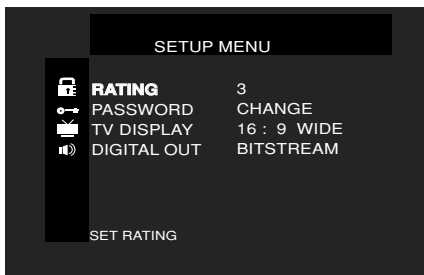
System Menu

The System Menu allows you to set certain features on the receiver. Use the System Menu to set up the Parental Control Rating, password, TV Display setting, and Digital output.

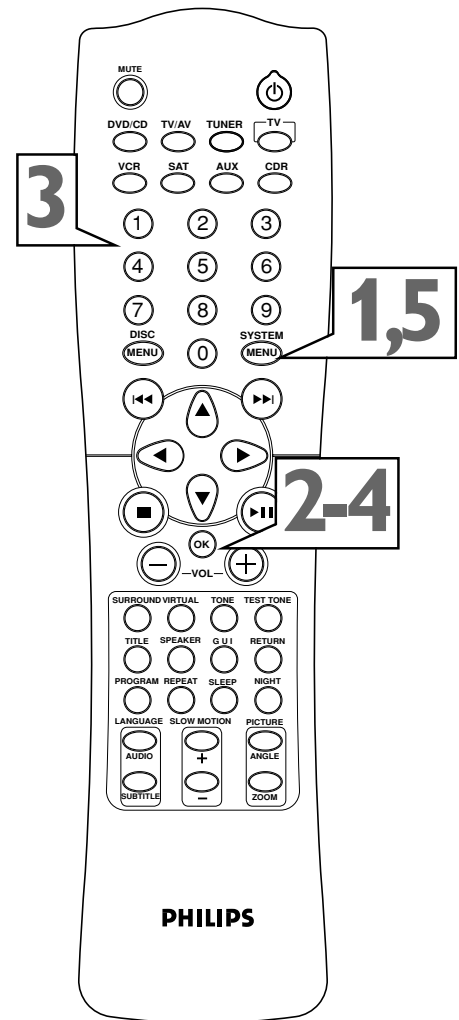
Parental Control

Some DVD and Video CD makers code the DVD/Video CD so it will only play according to the level you set at the DVD Receiver. The Parental Control level may apply to the complete Disc or to certain scenes on the Disc. Follow the steps below to set the Parental Level at which you want Discs to play.

- 1** While playback is stopped, press **SYSTEM MENU**.
- 2** **RATING** will be selected. Press **OK**.
- 3** Press the **Number buttons (0-9)** on the remote control to enter your four-digit code and press **OK**. When doing this for the first time, enter 1234. Then enter any four numbers for your personal code. You will have to enter the same code, exactly, twice. For password details, see page 26.



- 4** Press **OK** to select a Parental Control Level. DVDs that are rated above the level you selected will not play unless you enter your four-digit password and choose a higher level. To disable Parental Controls and have all Discs play, choose **UNLOCK**.
- 5** Press **SYSTEM MENU** to save changes and remove the menu.



Helpful Hints

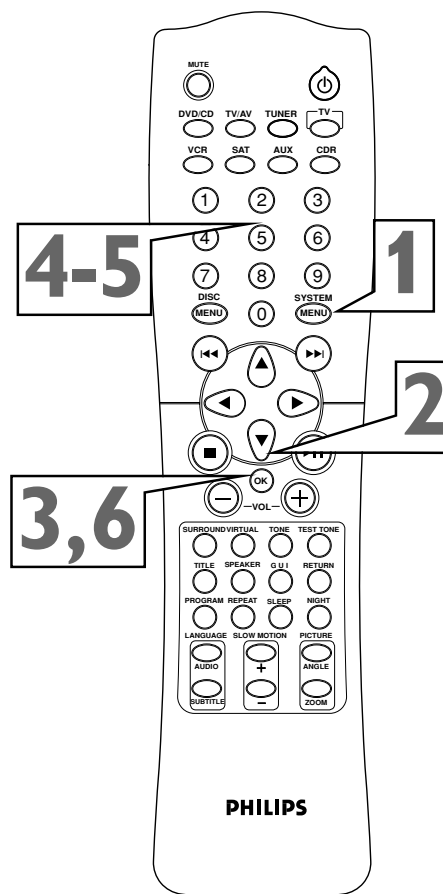
- Some DVDs are not encoded with a rating, although the movie rating is printed on the Disc case. Parental Control will not block viewing of such Discs.
- Philips cannot guarantee the availability of Parental Control with all Discs, and therefore denies any liability associated with unintended watching of Discs.
- If you forget your password and cannot restore the default password, disconnect the DVD Receiver from power for a few minutes to restore the default password.

26 Password

Parental Control Password

To set your four-digit password for Parental Control, follow these steps.

- 1** While playback is stopped, press **SYSTEM MENU**.
 - 2** Press **▼** to select **PASSWORD**.
 - 3** Press **OK** to change.
 - 4** Press **Number buttons 1, 2, 3, 4** (default password) when you are asked to enter the code for the first time. If you are replacing an old password, enter it.
Or, press 2580 to clear the old password.
Notice to Parents: You cannot reset the current Parental password without choosing a new code. If a password changes and you did not alter the code, then someone has reset the code and possibly viewed previously blocked or restricted level material.
- A screenshot of a television's on-screen menu. The title 'SETUP MENU' is at the top. Below it, there are several options: 'RATING', 'PASSWORD', 'TV DISPLAY', and 'DIGITAL OUT'. The 'PASSWORD' option is highlighted with a white border. To the right of these options, there are labels: 'OLD : ----', 'NEW : ----', '16 : 9 WIDE', and 'BITSTREAM'. At the bottom of the screen, it says 'SET PASSWORD'.
- 5** Press the **Number buttons (0-9)** to enter your **NEW CODE** number.
 - 6** Press **OK** to save the new password and **SYSTEM MENU** to remove the menu.

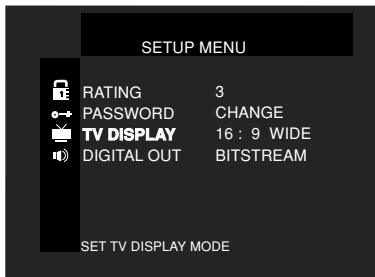


Helpful Hint

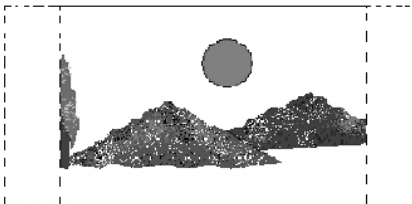
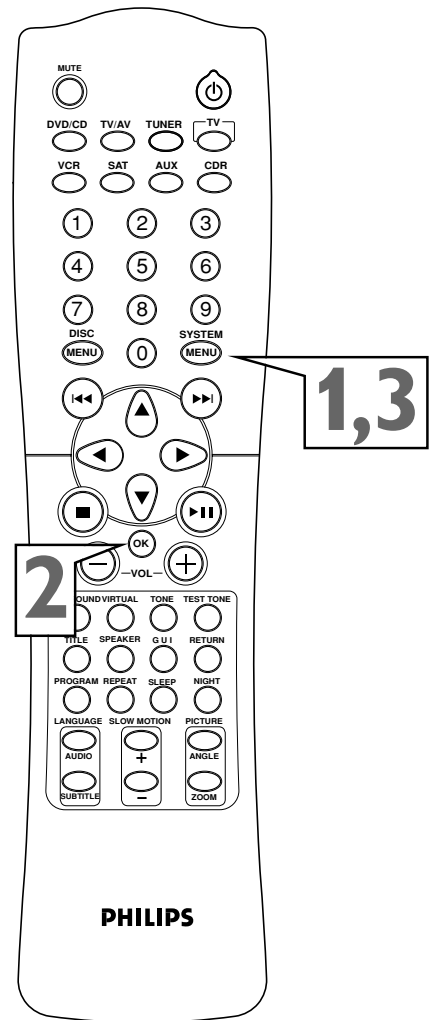
- If you forget your password and cannot restore the default password, disconnect the DVD Receiver from power for a few minutes to restore the default password.

You may set the DVD Receiver to display a DVD picture in one of three formats: Letterbox, Pan & Scan, or Wide. The format you select must be available on the DVD. To choose a format, follow these steps.

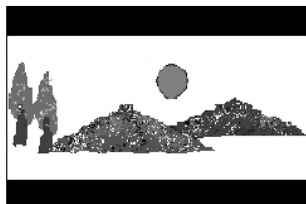
- 1 Press SYSTEM MENU. Press ▼ to select TV DISPLAY.**
- 2 Press OK to choose 4:3/PS, 4:3/LB, or 16:9 WIDE.**
 - Select 4:3/PS (pan & scan) if you want both sides of the picture to be trimmed (or formatted to fit your TV screen). This setting is possible only if the DVD is recorded in pan & scan or regular format. Check the Disc case for details.
 - Select 4:3/LB (letterbox) if you want to see the picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD was recorded in the letterbox or widescreen format. Check the Disc case for details.
 - Select 16:9 WIDE if you connected the DVD Receiver to a widescreen TV. Also remember to set the TV to its "full size" setting.



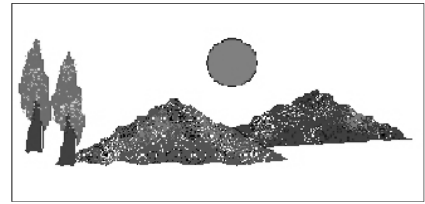
- 3 Press SYSTEM MENU to save your selection and exit the menu.**



Pan & Scan



Letterbox



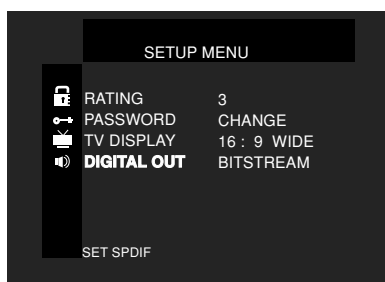
Widescreen (16:9)

28 Digital Output

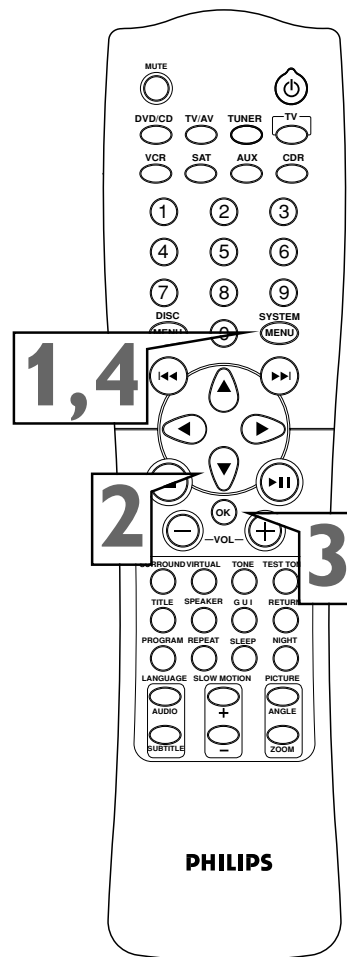
Digital Output

If you connect a device to the receiver's DIGITAL OPTICAL jacks, you will need to set the Digital Output. The setting will depend on the type of device you connected.

- 1** Press **SYSTEM MENU** to open the menu.
- 2** Press **▼** to select **DIGITAL OUT**.
- 3** Press **OK** to choose BITSTREAM or PCM.
 - Choose BITSTREAM for normal playback of DVDs using Dolby Digital or DTS.
 - Choose PCM to record audio from the receiver to an MD player or other equipment.



- 4** Press **SYSTEM MENU** to save your selection and exit the menu.



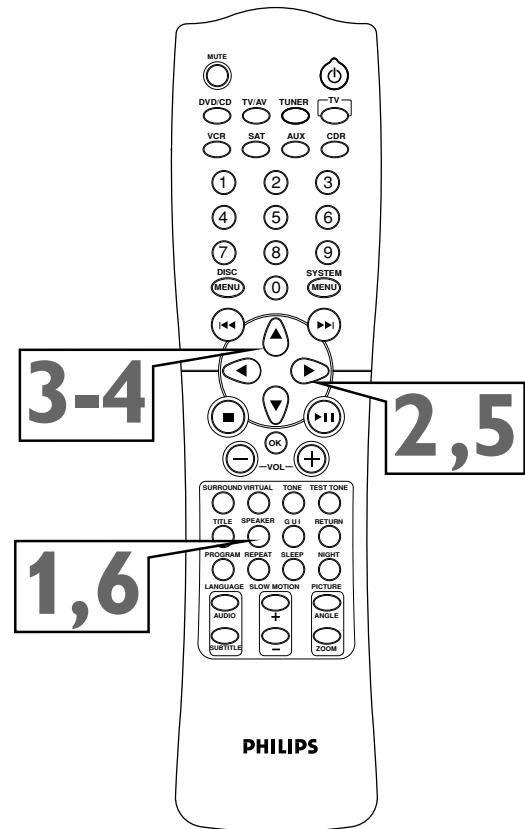
Speaker Size, Speaker Distance 29

You can adjust the size, distance, and volume of the speakers connected to the DVD Receiver. These adjustments let you optimize the sound according to your speakers, surroundings, and setup.

Speaker Size

If you are using the speakers that came with the receiver, the settings are correct. You will only need to change them if you use other speakers.

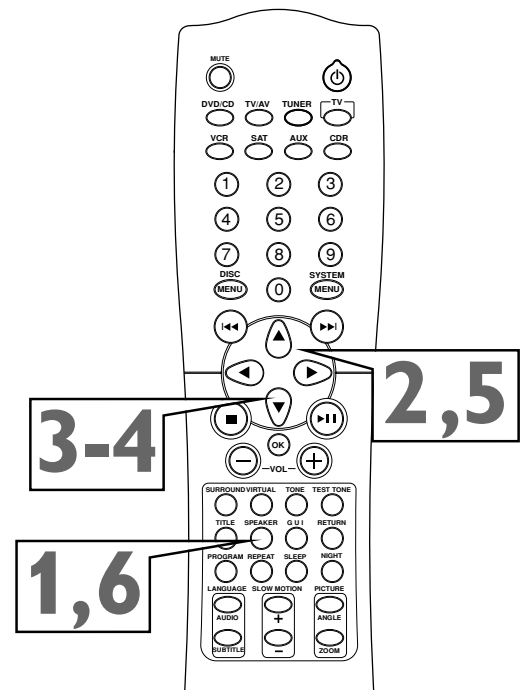
- 1** With the Receiver in DVD/CD mode, press **SPEAKER**. SP SIZE appears.
- 2** Press **►** to confirm.
- 3** Press **▲** or **▼** to select the speaker and press **►** to confirm.
 - FRONT, CENTER, SURR, or SUB-WF
- 4** Press **▲** or **▼** to change the size setting. Select SMALL if the speaker cone size (diameter) is less than five inches. If it is more than five inches, select LARGE.
 - F-LARGE or F-SMALL
 - C-SMALL, C-SMALL, or C-NONE
 - S-SMALL, S-SMALL, or S-NONE
 - SW-YES or SW-NO
- 5** Press **►** to confirm. Repeat 3-5 for other settings.
- 6** Press **SPEAKER** to save the settings and exit speaker mode.



Speaker Distance

You can adjust the distance for each speaker individually. This may be helpful when trying to balance the sound for your room.

- 1** With the Receiver in DVD/CD mode, press **SPEAKER**. SP SIZE appears.
- 2** Press **▲** twice to select **SP DIST** and press **►** to confirm.
- 3** Press **▲** or **▼** to select the speaker and press **►** to confirm.
 - FRONT, CENTER, SURR, or SUB-WF
- 4** Press **▲** or **▼** to change the distance between the speaker and the listening position (0-30 ft).
- 5** Press **►** to confirm. Repeat 3-5 for other settings.
- 6** Press **SPEAKER** to save the settings and exit speaker mode.



Helpful Hint

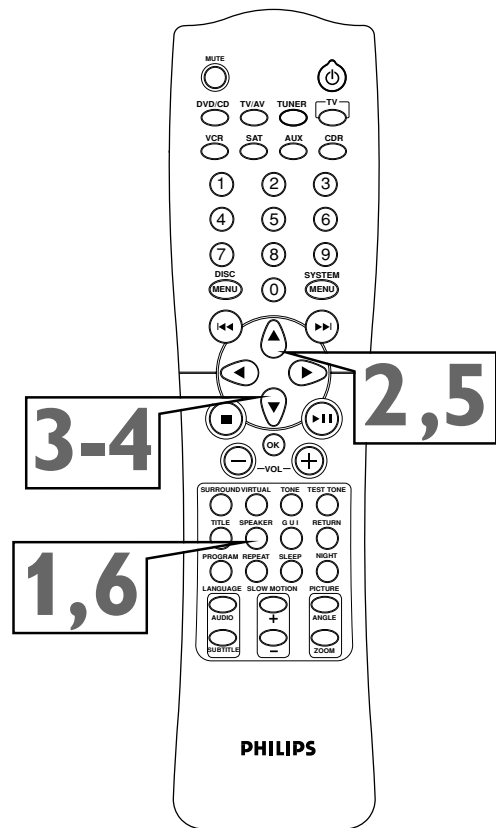
- Press **◀** when in Speaker mode to go back one step.

30 Speaker Level, Test Tone

Speaker Channel Level

You can adjust the sound level for each speaker individually. This may be helpful when trying to balance the sound for your room.

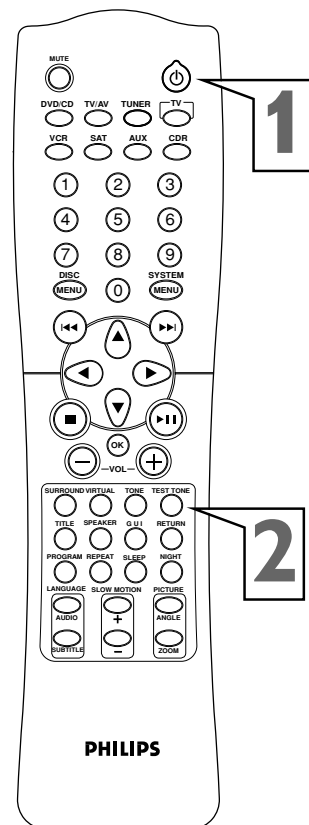
- 1** With the Receiver in DVD/CD mode, press **SPEAKER**. SP SIZE appears.
- 2** Press **▲** to select **CH LEVEL** and press **►** to confirm.
- 3** Press **▲** or **▼** to select the speaker and press **►** to confirm.
 - FL LEVEL: front left, C LEVEL: center, FR LEVEL: front right, SR LEVEL: surround right, SL LEVEL: surround left, SW LEVEL: subwoofer.
- 4** Press **▲** or **▼** to select the desired level. Select a setting between -10 and +10.
- 5** Press **►** to confirm. Repeat 3-5 for other settings.
- 6** Press **SPEAKER** to save the settings and exit speaker mode.



Test Tone


You can check the sound level of the speakers. Sit in your normal listening position to guarantee accurate speaker settings.

- 1** Press **POWER** if the receiver is not already on.
- 2** Press **TEST TONE**. A test signal plays from the left, center, right, and surround speakers. It will last for 2-3 seconds in each speaker.



Adjusting the Volume

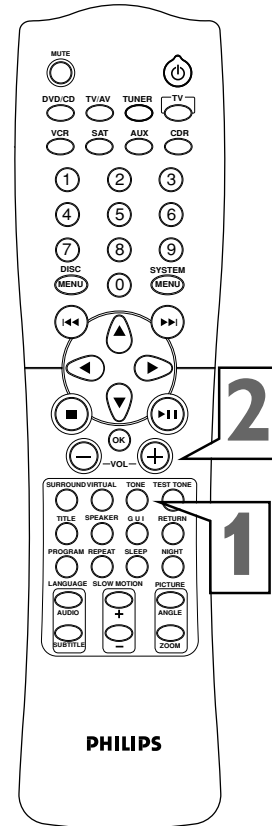
Turn the VOLUME dial on the DVD Receiver (or press VOL +/- on the remote) to increase or decrease the volume level of the DVD Home Cinema System.

- "VOL XX" will appear on the display panel, with "XX" being the specific volume level.
- If you have a Philips TV, press TV VOL +/- on the remote to adjust the TV's volume level.
- To listen through headphones (not supplied), connect the headphones to the  jack on the front of the DVD Receiver. The speakers will be muted.
- Press MUTE to turn off the volume. Playback will continue without sound. MUTE will appear on the DVD Receiver's display panel. Press MUTE again to restore the sound.

Adjusting the Tone

The Tone controls let you adjust the low and high tones of the Bass and Treble.

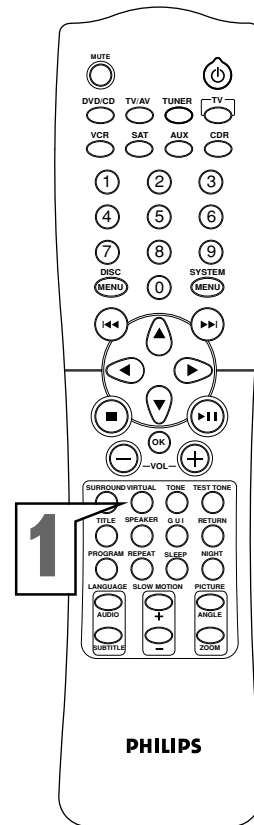
- 1 Press TONE** on the DVD Receiver to select the Bass or Treble sound feature.
- 2 Within five seconds, turn the VOLUME dial** to adjust the Bass or Treble level.



Selecting Virtual Sound Effects

Virtual Sound Effects let you enhance your favorite music or soundtrack. Select a preset audio mode that matches your Disc's content or that optimizes the sound of the musical style you are playing.

- 1 Press VIRTUAL** repeatedly to choose a sound effect.
 - STADIUM recreates a large stadium effect using long reverberation times.
 - HALL recreates a concert hall suitable for orchestral music.
 - THEATER uses the speakers to recreate a theater environment, emphasizing the front channels.



32 Surround Sound Options

For proper Surround Sound, you must connect the speakers correctly and select the right sound source mode. See *page 10* and your separate *Quick-Use Guide* for details.

The Center and Surround speakers operate only when the DVD Home Cinema System is set to surround sound mode. The source you are playing (DVDs, Tuner, etc.) must be recorded or broadcast in Dolby Digital, DTS, or Dolby Pro Logic surround sound.

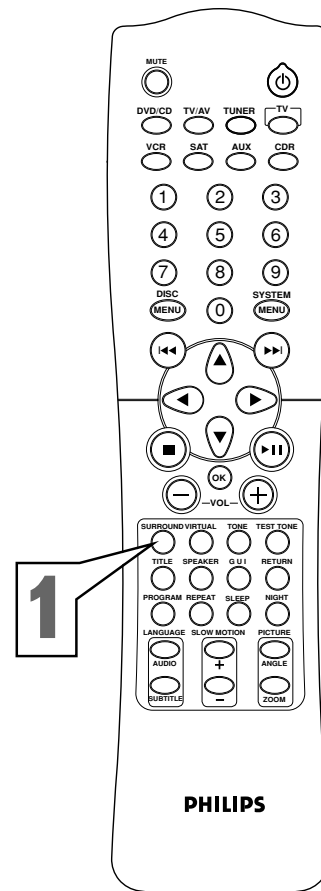
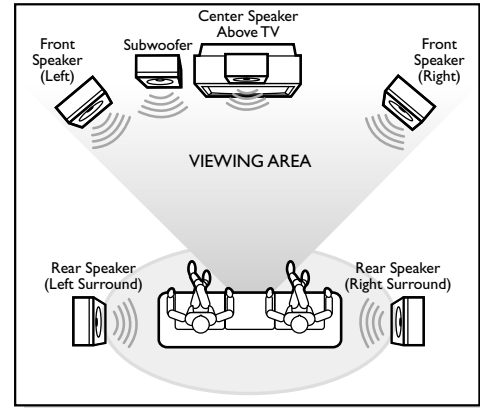
Stereo broadcasts or recordings will produce some surround sound effects when played in a surround mode. However, monaural (mono) sources will not produce any sound from the surround speakers.

Selecting Surround Sound

- 1 Press SURROUND ON/OFF repeatedly to select a surround sound or stereo mode.** The availability of the various surround sound modes depends on the number of speakers connected and the sound information available on the Disc, etc.

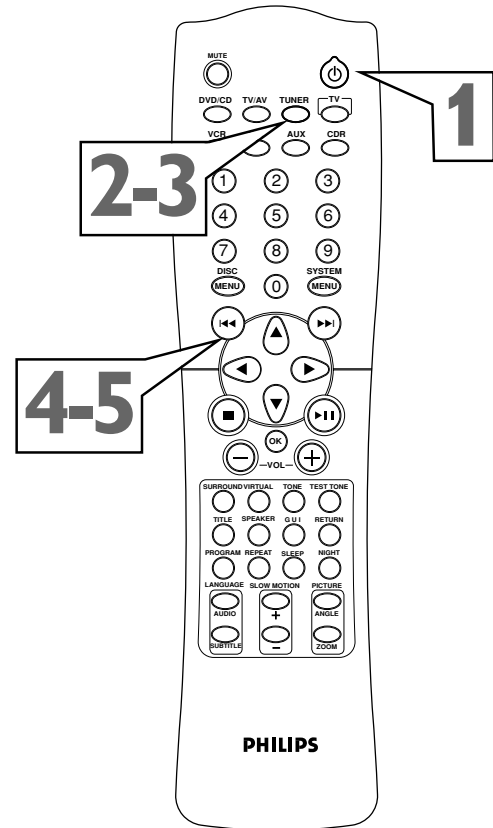
Surround Sound options are:

- **Dolby Digital Surround** - Also referred to as AC-3, Dolby 5.1, or MPEG Multichannel - delivers a realistic, dynamic sound similar to theater and cinema. Many DVDs are recorded in Dolby Digital Surround.
- All five speakers (front left, front right, center, surround left, and surround right) and the Subwoofer of the DVD Home Cinema System must be connected to the DVD Receiver.
- **DTS (Digital Theater Systems) Surround** - A cinema surround sound format that offers superior digital audio performance. DTS offers more clarity and definition, especially for higher tones. The better sound quality is a result of the limited sound compression (3:1 instead of 11:1 for Dolby Digital) and 20-bit resolution.
- **Dolby Pro Logic Surround** - A specially encoded two-channel analog format that produces sound through four speakers (Front Left, Center, Front Right, and a single/monaural Surround) when using a Dolby Pro Logic Decoder. Dolby Pro Logic Surround is compatible with two-channel (right and left) Stereos, but you will have sound only from two channels (the left and right).
- **Stereo** - All sound is reproduced and played through the Front left/right speakers. This enables standard stereo reproduction.



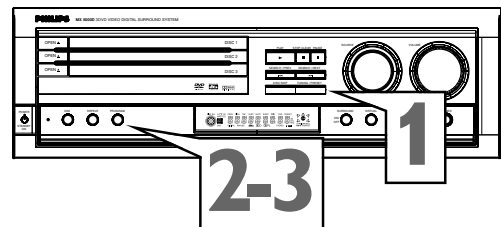
Tuning Radio Stations

- 1** Press **⏻** (or **STANDBY-ON** **⏻** on the front of the DVD Receiver) to turn on the last selected sound source.
- 2** Press **TUNER** on the remote (or turn the **SOURCE** dial on the DVD Receiver) to select **TUNER** mode.
- 3** Press **TUNER** again to select **FM** or **AM**.
- 4** Press and hold **⏮** or **⏭** until the frequency indicator (station number) starts to change, then release. The next radio station will tune automatically.
- 5** To tune to a weak station, press **⏮** or **⏭** briefly and repeatedly until the best possible reception is found.



Automatic Preset

- 1** Press **TUNING•PRESET**.
- 2** Press **Program** until **PRESET** flashes. All radio stations (up to 30) with sufficient strength will be stored.
- 3** Press **Program** to stop the automatic preset.

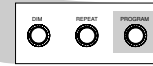
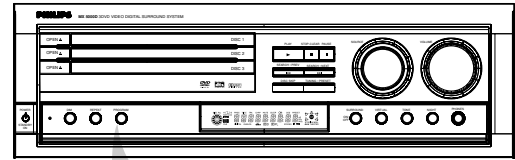


34 Radio Tuner

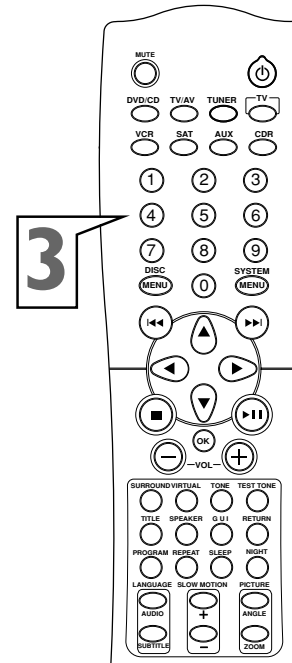
Programming Radio Stations

You can preset up to 30 stations in memory.

- 1** Tune to the desired radio station as detailed above.
- 2** Press **PROGRAM** on the front of the DVD Receiver. "PROG" will appear on the display panel.
- 3** Within five seconds, press the **Number buttons (0-9)** to select a preset number.
 - If "Program" disappears from the display panel before you select a preset number, repeat steps 2-3.
- 4** Within five seconds, press **PROGRAM** to store the radio station. Repeat steps 1-4 to store other radio stations.
 - If you try to program more than 30 preset radio stations, "FULL" will appear on the display panel.

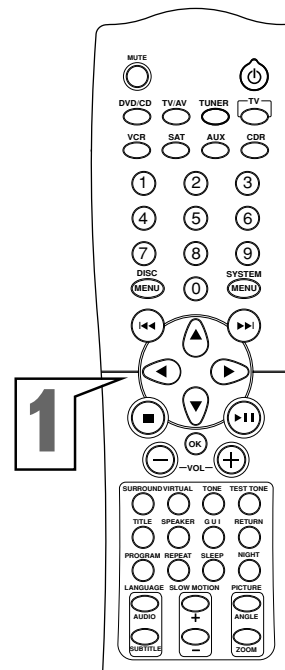


2-4



Selecting Preset Radio Stations

- 1** In Tuner mode, press **◀** or **▶** or use the **Number buttons** to select a preset station number. The preset station number, radio frequency, and FM or AM will appear on the display panel.




WARNING!

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.

No power

- Press STANDBY-ON  on the front of the DVD Receiver to turn on the power.
- Make sure you connected the DVD Receiver's power cord to an AC power outlet.
- Make sure the AC outlet has power by trying another appliance in the same outlet.


No picture

- Make sure the TV power is on.
- Check the video cables. Make sure the cable(s) are fastened securely to the DVD Receiver and TV.
- Set your TV to the correct Video In channel. These channels are usually near channel 00. Or, you may have a button on the TV remote control that selects an Auxiliary or A/V IN channel. See your TV owner's manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD screen on the TV.
- You only need one video connection between the DVD Receiver and the TV.
- Press the correct source button (DVD/CD, TV/AV, TUNER, etc.) to choose what you want to watch.

Distorted picture

- Check the Disc for fingerprints. Clean the Disc with a soft cloth, wiping from the center to the edge in a straight line.
- Sometimes a small amount of picture distortion may appear. This is not a malfunction.

The sound is distorted or there is no sound.

- Make sure you did not connect any cables from the DVD Receiver to a Stereo's "PHONO IN" jack.
- Make sure you did not connect the DIGITAL OUT - COAXIAL or OPTICAL jack on the DVD Receiver to an analog jack on the Stereo. (Analog audio jacks are usually labeled as such and are usually red and white.)
- Check the speaker connections. Make sure cables are connected firmly to all equipment. *Details are on page 10.*
- Choose the correct Audio/Video In or Auxiliary channel at your TV. See your TV's manual for details. Or, change channels at the TV until you hear sound from the Disc that is in the DVD Receiver or until you see the DVD screen on your TV.
- Choose a different Audio setting. *Details are on pages 29-32.* Check the Audio setting of a DVD in the DVD Disc Menu, if available, and adjust as necessary.
- Choose the correct sound source at the DVD Receiver. Press DVD/CD, TV/AV, TUNER, TV, VCR, SAT, AUX, or CDR on the DVD Receiver's remote control to choose the equipment that you want to hear through the DVD Receiver.
- Check the Surround Sound setting. Make sure it is compatible/available with the current Disc. *Details are on page 36.*
- Adjust the volume.
- Replace the speaker cables.
- Check the speaker settings. *Details are on page 29-30.*
- Sound is mute during slow motion, searching, or paused Disc playback. Press PLAY/PAUSE  to resume normal playback and restore the sound.

Disc will not play.

- Make sure the Disc label is facing up. If you are playing a two-sided Disc, make sure the label of the side you want to play is facing up when you place the Disc in the DVD Receiver's disc tray. *Details are on page 15.*
- Check the Parental Controls. *Details are on pages 25-26.*
- Check the Region Code of the DVD. The DVD must be coded for All regions or Region I in order to play on this DVD Receiver. *Details are on page 5.*
- See if the Disc is defective by trying another Disc. Make sure the Disc is not scratched or warped. Carefully clean the Disc.
- Press SYSTEM MENU to remove the System Menu. Then try playing the Disc again.
- Moisture may have condensed inside the DVD Receiver. Remove the Disc and leave the DVD Receiver power on for about an hour before trying to play Discs again. Moisture may condense inside the DVD Receiver if you move it suddenly from a warm place to a cold environment, or vice versa.

An Audio CD will not play.

- Some Audio CDs available on the market are copy protected. These discs will not play on this DVD Receiver. See your retailer for options regarding non-protected Audio CDs.

The DVD Receiver does not respond to the remote control.

- Aim the remote control directly at the remote sensor on the front of the DVD Receiver, not your TV.
- Remove any obstacles between the DVD Receiver and the remote. Move closer to the DVD Receiver and try again.
- Inspect or replace the batteries in the remote control. *Details are on page 9.*
- Use the SOURCE buttons (DVD/CD, TV/AV, TUNER, TV, VCR, SAT, AUX, or CDR) to place the remote in the right mode. For example, when using the remote to start Disc playback, press DISC first.

36 Helpful Hints (cont'd)

You cannot activate some features, such as Angles, Subtitles, or multi-language Audio.

- The feature may not be available on the Disc. Check the Disc case to see if the Disc has the feature. If the Disc does not have the feature, the DVD Receiver cannot create the feature. This is not a malfunction of the DVD Receiver.

The DVD Receiver does not work.

- Disconnect the power cord from the power outlet for a few minutes. Reconnect the power cord and try to operate the DVD Receiver again as usual.

There is no sound from the Center or Rear/Surround speakers.

- Press CENTER +/- or REAR +/- on the remote control to adjust the volume level.
- Make sure the Center and Rear/Surround speakers are connected correctly. *Details are on page 10.*
- Choose a correct Surround Sound setting. Surround Sound must be available on the current Disc or broadcast. *Details are on page 32.*

Radio broadcasts are noisy or have considerable static.

- Tune to the correct frequency. *Details are on page 34.*
- Connect the antennas. *Details are on page 9.*
- Route Cable TV/RF/AC-3 and digital cables away from the antennas and speaker wires.
- Fully extend the FM wire antenna and position it for the best reception.
- Connect an outdoor FM or AM antenna.
- Turn off other equipment that is near the DVD Receiver. It may be causing interference. Move other equipment away from the DVD Receiver. Move the DVD Receiver's antennas away from the other equipment.

The display panel is dark.

- Press DIM repeatedly until you can see the information on the display panel.

You hear a low hum or buzz sound.

- Place the DVD Receiver as far as possible from electric devices that may cause interference.

Bass response is low.

- Check the polarity (+/- wires and jacks) of all the Speakers.

AMPLIFIER SECTION

Output power Stereo (6 Ω , 1 kHz, 10% THD 100W)	
.....	2 x 100 W / 2 x 90 W FTC
Output power Surround (6 Ω , 1 kHz, 10% THD 100W)	
Front left/right	2 x 100 W
Center	100 W
Surround left/right	2 x 100 W
Subwoofer	100 W
Total Harmonic Distortion	10% at rated power 100 W (1 kHz)
Frequency Response	10 Hz – 20 kHz, -3 dB/+1 dB
Signal-to-Noise Ratio,	
Stereo-TV	> 67 dB (IHF-A)
Surround/front/center	> 65 dB (IHF-A, -20 dB FS)
Tone Control	± 10 dB
Input Sensitivity	450 mV / 47Kohm
Output Level	420 mV 1 Kohm
Cross-talk (separation)	
Stereo-TV	> 55 dB
Dolby Digital	> 45 dB

TUNER SECTION

Tuning Range	FM 87.5–108MHz (100kHz steps)
.....	AM 530–1700kHz (10kHz steps)
26 dB Quieting Sensitivity	FM <22 dBf/AM <3250 μ V/m
Signal-to-Noise Ratio	FM 55 dB/AM 35 dB
Harmonic Distortion	FM Mono 3%/FM Stereo 2%
Frequency Response	FM 20Hz–15kHz / -3 dB
Selectivity	AM > 25 dB

DVD SECTION

Laser Type	Semiconductor
Disc Diameter	12cm/8cm
Video Decoding	MPEG-2
Video DAC	10 Bits
Video Format	4:3/16:9
Video S/N	>45 dB (minimum)
Input Sensitivity	1.0 Vpp / 75 Ω
Output level	1.0 Vpp / 75 Ω
S-Video Output	Y - 1.0 Vp-p, 75 Ω
.....	C - 0.286 Vp-p, 75 Ω
Frequency Response	20 Hz – 20 kHz (44.1 kHz)
.....	20 Hz – 22 kHz (48 kHz)
.....	20 Hz – 44 kHz (96 kHz)

LASER

Type	Semiconductor laser GaAlAs
Wavelength	650nm
Output Power	7mW
Beam divergence	60 degree

MISCELLANEOUS

Power Supply Rating	120 V / 60 Hz
Power Consumption	3.4 A
Dimensions (w x h x d)	430 mm x 140 mm x 400 mm
.....	16.93 x 5.51 x 15.75 (inches)
Weight	16.7 kg/36.8 lbs.

REMOTE CONTROL

Effective Range	> Eight Meters
Number of Buttons	51
Batteries (1.5V)	2 AA

SPEAKERS

Front / Surround / Center speaker

System	3-way shielded
Impedance	6 Ω
Speaker drivers	3" woofer, 1.75" tweeter
Dimensions (w x h x d)	94 mm x 155 mm x 88 mm
.....	3.70 x 6.10 x 3.46 (inches)
Weight	0.45 kg/.99 lbs.

SUBWOOFER

Subwoofer (not magnetically shielded)	6.5"
Output power	100 W (6 Ω , DIN)
THD	10% at 55 Hz
Reproduction frequency response	435 Hz – 150 Hz
Dimensions (w x h x d)	200 mm x 310 mm x 370 mm
.....	7.87 x 12.20 x 13.78 (inches)
Weight	7 kg/15.32 lbs.

Specifications are subject to change without notice.

38 Glossary

Analog: Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. Analog sound is available when you use the red and white audio jacks on your equipment. These jacks send audio through two channels, the left and right.

AUDIO OUT Jacks: Jacks on the back of the DVD Receiver that send audio to another system (TV, Stereo, etc.).

Bit Rate: The amount of data used to hold a given length of music; measured in kilobits per seconds, or kbps. Or, the speed at which you record. Generally, the higher the bit rate, or the higher the recording speed, the better the sound quality. However, higher bit rates use more space on a Disc.

For example, an MP3 music file recorded at 32 kbps will record slowly, use the least Disc space, and have the poorest sound quality. But, an MP3 music file recorded at 96 kbps will record quicker, use more Disc space, and have significantly better sound quality.

CD: Compact Disc (audio).

Coaxial jack: Sends digital audio to a Stereo, allowing you to adjust the volume at the Stereo. The Stereo must have a coaxial in jack. This connection provides the 5.1 channel surround sound as heard in movie theaters.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL or OPTICAL jacks. These jacks send audio through multiple channels, instead of just two channels as analog does.

Dolby Digital: A surround sound system that provides 5.1 channel sound as used in movie theaters.

DTS: Digital Theater Systems. This is a surround sound system, but it is different from Dolby Digital. The formats were developed by different companies.

DVD: Digital Video Disc.

Letterbox: A TV aspect ratio setting (4:3). Displays the video in full-width, with black bars at the top and bottom of the TV screen. This format is similar to seeing a movie in a theater. If the Disc does not include a letterbox format, selecting Letterbox may have no effect. (For example, some DVDs are two-sided, with one side playing in Letterbox and the other side playing in a normal format.)

OPTICAL Jack: Converts electrical signals into optical signals before sending the audio to the Stereo. Optical audio is not prone to external electrical influences and has less noise, which reduces adverse effects on external equipment. Be sure to keep the protective cap on the jack when the jack is not in use. This keeps dust out of the jack.

Pan & Scan: A TV aspect ratio setting (4:3). Displays the video with full-height picture, with one or both sides of the picture trimmed. Some movie companies refer to this as “reformatting the picture to fit your TV screen.”

Remote Control: The unit that came with your DVD Receiver and allows you to operate your DVD Receiver from a distance.

VIDEO OUT Jack: Jack on the back of the DVD Receiver that sends video to a TV.

Widescreen: A TV aspect ratio setting (16:9). Displays the video appropriately when you connect the DVD Receiver to a widescreen TV.

▶▶ (forward search) button	6	parental control password	26
◀◀ (reverse search) button	6	password	26
■ (stop) button	6	picture button, angle	6
▼ ▲ ◀ ▶ buttons	6	picture button, zoom	6
▶ (play/pause) button	6	playable discs	5
angle	19	playback	15
antenna	9	playback features	16
audio language	19	power ⏻ button	6
automatic preset	33	program button	6
battery	9	programming radio stations	34
cable/satellite box	14	rear panel	8
composite video	10	remote control	6
digital output	28	repeat button	6
digital theater systems	32	return button	6
dim button	7	s-video	11
disc menu button	6	safety information	4
disc menus	24	setup	9
disk playback	15	sleep timer	23
dolby digital	32	slow motion	20
dolby pro logic	32	slow motion +/- buttons	6
ds	32	source buttons	6
environmental information	5	speaker button	6
favorite track selection	22	speaker channel level	30
front panel	7	speaker distance	29
glossary	38	speaker size	29
graphic user interface	17	speakers	12
gui	17	specifications	37
gui button	6	standby button	6
helpful hints	35-36	step playback	20
hookups	10-14	stereo	32
introduction	5	subtitles	18
language button, audio	6	surround button	6
language button, subtitle	6	surround sound	32
maintenance and cleaning	5	system menu	25
mp3 features	23	table of contents	3
mute button	6	test tone	30
night button	6	test tone button	6
night mode	22	title menus	24
ntsc / pal	15	title/chapter selection	18
numeric keypad	6	tone button	6
ok button	6	troubleshooting	35
optional audio equipment	13	tuner	33
package contents	5	tv button	6
parental control	25	tv shape	27
		vcr	14
		virtual button	6
		virtual sound effects	31
		volume +/- buttons	6
		warranty	39
		zoom	21

40 Limited Warranty

AUDIO SYSTEM

One Year Free Labor

One Year Free Service on Parts

This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For one year thereafter*, all parts will be repaired or replaced, and labor is free. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips. In countries where Philips does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. If you have additional questions, call us at 1-800-531-0039.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-531-0039 (English Speaking or Spanish Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips, P.O. Box 520890, Miami, FL 33152 (402) 536-4171